Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: T.Y. BSc (IT) DIV-C SEMESTER:SEM -5 MONTH: JUL-OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand what is a The Internet of Things and its applications .
- Introduction of Prototyping the Physical Design and online design.
- Understand different techniques of Prototyping.
- Learn the concept of automation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT502 Internet Of Things UNIT 1	**The Internet of Things:** An Overview: The Flavour of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things?	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	Laptop, power point, jamboard
	Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data Is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Graceful Degradation, Affordances.	4		

	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses,	4		
	DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS: Encrypted HTTP, Other Application Layer Protocols.			
USIT502 Internet Of Things UNIT 2	**Thinking About Prototyping**: Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation	4	1.Designing the Internetof Things Adrian McEwen, Hakim Cassimally WILEY First 2014 , 2.Internet of Things – Architecture and Design Raj Kamal McGraw Hill First 201	Laptop, power point, jamboard
	Climbing into the Cloud Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community	4		

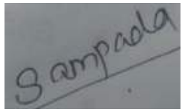
	Prototyping Embedded Devices: Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chips, Choosing Your Platform, Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness	4		
USIT502 Internet Of Things	**Prototyping the Physical Design:** Preparation, Sketch, Iterate, and Explore, Nondigital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling.	5	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	

UNIT 3	**Prototyping Online Components**: Getting Started with an API, Mashing Up APIs, Scraping, Legalities, writing a New API, Clockodillo, Security, implementing the API, Using Curl to Test, Going Further	3		Laptop, power point, jamboard
	Real-Time Reactions, Polling, Comet, Other Protocols, MQ Telemetry Transport, Extensible Messaging and Presence Protocol, Constrained Application Protocol.	4		

USIT502 Internet Of Things UNIT 4	**Techniques for Writing Embedded Code:** Memory Management,Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries,Debugging.	5	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	Laptop, power point, jamboard
	Business Models: A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models	3		
	Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, take a Percentage, Funding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Lean Startups.	4		
USIT502	**Moving to Manufacture:** What Are You Producing? Designing Kits, Designing Printed circuit boards, Software Choices, The Design	5	1.DesigningtheInternetof Things Adrian McEwen, Hakim Cassimally WILEY First 2014 ,	

Internet Of Things UNIT 5	Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards. Assembly, Testing, Mass-Producing the Case and Other Fixtures.		2.Getting Started with Raspberry Pi Matt Richardson and Shawn Wallace SPD Third 2016	Laptop, power point, jamboard
	Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Community.	3		
	Ethics: Characterizing the Internet of Things, Privacy, Control, Disrupting Control, Crowdsourcing, Environment, Physical Thing, Electronics, Internet Service, Solutions, The Internet of Things as Part of the Solution, Cautious Optimism, The Open Internet of Things Definition	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: SY BSc IT. DIV-C SEMESTER: SEM 3 MONTH:JUNE-SEPT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

1. To have a broad understanding of database concepts and database management system software
2. To have a high-level understanding of major DBMS components and their function
3. To be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
4. To be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.
5. To be able to program a data-intensive application using DBMS APIs.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 DBMS UNIT 1	Introduction to Databases and Transactions What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management.	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Data Models The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction.	4		
	Database Design, ER Diagram and Unified Modelling Language Database design and ER Model: overview, ER Model, Constraints, ER Diagrams, ERD Issues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML	4		
	Relational database model: Logical view of data, keys, integrity rules,	2		POWER POINT PRESENTATION

UNIT 2	Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF).	3	DATABASE SYSTEM AND CONCEPTS BY H KORTH	
	Relational Algebra and Calculus Relational algebra: introduction, Selection and projection, set operations, renaming, Joins, Division, syntax, semantics	3		
	Operators, grouping and ungrouping, relational comparison	2		
	Calculus: Tuple relational calculus, Domain relational Calculus, calculus vs algebra, computational capabilities	2		
UNIT 3	Constraints, Views and SQL Constraints, types of constrains, Integrity constraints,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Views: Introduction to views, data independence, security, updates on views, comparison between tables and views	4		
	SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers	4		
UNIT 4	Transaction management and Concurrency Control Transaction management: ACID properties, serializability and concurrency control,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Lock based concurrency control (2PL, Deadlocks),Time stamping methods,	4		
	Optimistic methods, database recovery management.	4		
UNIT 5	PL-SQL: Beginning with PL / SQL, Identifiers and Keywords, Operators, Expressions, Sequences	4	PROGRAMMING WITH PL/SQL FOR BEGINNERS BY H. DAND,R. PATIL	POWER POINT PRESENTATION
	,Control Structures, Cursors and Transaction,	4		
	Collections and composite data types, Procedures and Functions, Exceptions Handling, Packages with Clause and Hierarchical Retrieval, Triggers.	4		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:___AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3				
	Technique of counting- Introduction, Basic counting principle, Mathematical functions,Permutation and combination, the Piegeo hole principle ,The inclusion exclusion principle, Tree diagram Advance Counting Technique, Recursion Introduction, Combination with reputation, ordered and un ordered partitions inclusion exclusion 4revisited pigeonhole principle revisited ,Recurrence Relation ,Linear Recurrence relation with constant coefficients, solving second order homogenous linear Recurrence, relation, solving general homogenous linear Recurrence relation	12	Discrete Mathematics	Blackboard and chalk

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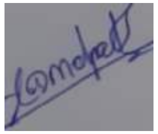
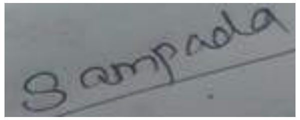
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___________





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik | DEPARTMENT: Mathematics | CLASS: FYIT (A,B,C)

SEMESTER: I | MONTH: July-November | ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTATIONAL LOGIC AND DISCRETE STRUCTURES	**Binary Trees**: Introduction, Binary trees, Complete and Extended binary trees, Representing binary trees in memory, Traversing binary trees, Binary Search Trees, Heaps, Huffman's algorithm.	06	Discrete Mathematics and It's Applications	Chalk and board
UNIT V	**Ordered Sets and Lattices:** Introduction, Ordered sets, Hasse diagram of Partially Ordered Sets, Supremum and Infimum, Isomorphic (similar) Ordered Sets, Well Ordered Sets, Lattices, Bounded Lattices, Distributive Lattices, Complements, Complemented Lattices	06	Discrete Mathematics and It's Applications	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

K. Naik

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONALI DATTTARAY SALVANIKAR DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database.
- Remove redundant data by normalization.
- Understand basic database storage structures and access techniques and database recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit I	Database system- concept and Architecture: DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	05	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board and Chalk
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	04		
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	03		

Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	02		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		
Fundamentals of Database Management Systems (USIT103) Unit IV	Introduction to SQL: SQL introduction, datatypes, DDL-create,alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	04	SQL Complete Reference by James Groff	Black Board and Chalk
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multitable queries consideration	05		
	Query Processing and optimization. File structure, Hashing and Indexing	03		

Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	05	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, Database Management System by Ramakrishnan	Black Board and Chalk
	Concurrency control technique.	03		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Vartak DEPARTMENT: IT

CLASS: FYIT DIV A SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

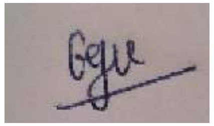
LEARNING OBJECTIVES:

- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		
	Boolean algebra and Gate level minimization:	12	Digital Logic Design Sonali Singh	Black Board and Chalk

Digital Logic and Applications (USIT102) Unit II	Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions		BPB publications.	
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk,Projector
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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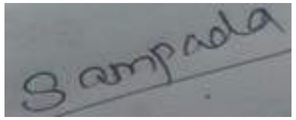

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT:CS

CLASS:FYIT-DIV A SEMESTER: SEM-1 MONTH: SEP-NOV ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, TITLE, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 1, Programming Principles with C, UNIT 1	**Introduction**: Algorithms, History of C, Structure of C Program. Program Characteristics, Compiler, Linker and preprocessor, pseudo code statements and flowchart symbols, Desirable program characteristics. Program structure.	6	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	Compilation and Execution of a Program, C Character Set, identifiers and keywords, data types and sizes , constants and its types, variables, Character and character strings, typedef, typecasting	6		
UNIT 2	**Type of operators**: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators, the conditional operator, Assignment operators and expression, Precedence and order of Evaluation	5	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by	CHALK AND BOARD

	Block Structure, Initialization, C Preprocessor	1	E.Balagurusamy	
	Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops-While and For LoopsDo-while, Break and Continue, Goto and Labels	6		
Unit 3	**Functions and Program Structure**: Basics of functions. User defined and Library functions, Function parameters, Return values, Recursion	6	Let us c-by Yashwant kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	External variables, Scope Rules, Standard Input and Output, Formatted Output-printf() and Formatted Input- scanf(), Line Input and Output, Error Handling- StdErr and Exit, Header Files	6		
UNIT 4	**Pointer and Arrays** Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays, Address Arithmetic, Character Pointers and Functions,.	6	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	Pointer Arrays: Pointers and Functions, Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	6		
Unit 5	**Structures**: Basics of structures, Structures and Functions, Arrays of Structures, Pointers to Structures, Unions, Bit-fields,	6	Let us c-by Yashwant kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error handling in C, Random access to files, Command line arguments.	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: IT

CLASS: FYIT DIV A SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		
Technical	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity, Courtesy,	03	Business Communication	Black Board and Chalk

Communication Skills (USIT105) Unit II	Correctness.		Meenakshi Raman &Prakash singh.	
	Conversations :Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	01		
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	02		
Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	05	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	04		
	Interview Introduction, objectives, types of interview, job interviews	03		
Technical Communication Skills (USIT105)	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business Communication by Tata McGraw Hill	Black Board and Chalk
	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03		

Unit IV	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		

	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-

2022 LEARNING OBJECTIVE/S:

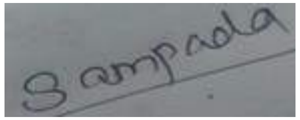
- To develop the logical ability of the student.
- Basic concepts to be cleared using suitable examples.
- Different approach towards the problem.
- To handle the errors and find suitable solution.
- Debugging the code.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Programming Principles with C (USIT101) Unit III	**Functions and Program Structure**: Basics of functions. User defined and Library functions, Function parameters, Return values, Recursion External variables, Scope Rules, Standard Input and Output, Formatted Output-printf() and Formatted Input- scanf(), Line Input and Output, Error Handling- StdErr and Exit, Header Files	12	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk

Programming Principles with C (USIT101)	**Structures**: Basics of structures, Structures and Functions, Arrays of Structures, Pointers to Structures, Unions, Bit-fields, File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error	12	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk

Unit IV	handling in C, Random access to files, Command line arguments.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-

23 LEARNING OBJECTIVE/S:

- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database application scenarios.
- Improve the database design by normalization.
- Understand basic database storage structures and access techniques: file and page organizations, indexing methods and hashing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	03	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	03		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		

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Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	04	Database Systems: Design implementation and management By Carlos Coronel.	Black Board and Chalk
	Concurrency control technique.	04		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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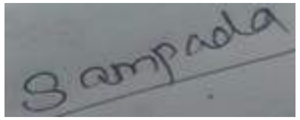

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: FYIT DIV B SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		
	Boolean algebra and Gate level minimization:	12	Digital Logic Design Sonali Singh	Black Board and Chalk

Digital Logic and Applications (USIT102) Unit II	Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions		BPB publications.	
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk,Projector
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS:FYIT-DIV B SEMESTER: SEM-1 MONTH: AUG-NOV ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 IP UNIT 1	**Introduction: Algorithms, History of C, Structure of C Program. Program Characteristics, Compiler, Linker and preprocessor, pseudo code statements and flowchart symbols, Desirable program characteristics. Program structure. Compilation and Execution of a Program, C Character Set, identifiers and keywords, data types and sizes , constants and its types, variables, Character and character strings, typedef, typecasting**	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK

UNIT 2	Type of operators: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators, the conditional operator, Assignment operators and expression, Precedence and order of Evaluation Block Structure, Initialization, C Preprocessor Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops- While and For Loops- Do-while, Break and Continue, Goto and Labels	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK
UNIT 4	Pointer and Arrays Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays, Address Arithmetic, Character Pointers and Functions, Pointer Arrays: Pointers and Functions, Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 33

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: F. Y. B. Sc. IT –B SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Define and describe the fundamental elements of relational database management system.
b. Transform the ER-model to relational tables, populate relational database and formulate SQL queries on data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Fundamentals of Database Management Systems Unit -I	**Database system- concept and Architecture:** DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	6	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	3		Black Board
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	3		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT
CLASS: F. Y. B. Sc. IT –B   SEMESTER: I   MONTH: September to November   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Define and describe the fundamental elements of relational database management system.
b. Transform the ER-model to relational tables, populate relational database and formulate SQL queries on data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Fundamentals of Database Management Systems Unit -IV	Introduction to SQL: SQL introduction, datatypes, DDL-create, alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	4	SQL Complete Reference by James Groff	Black Board
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multi-table queries consideration	4		Black Board
	Query Processing and optimization. File structure, hashing and indexing	4		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AVINASH DILIP SONAWANE. DEPARTMENT:

IT CLASS: FYIT DIV B SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		
Technical Communication	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity,	03	Business Communication	Black Board and Chalk

	Courtesy, Correctness.			

Skills (USIT105) Unit II			Meenakshi Raman &Prakash singh.	
	Conversations :Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	01		
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	02		
Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	05	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	04		
	Interview Introduction, objectives, types of interview, job interviews	03		
Technical Communication	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business	

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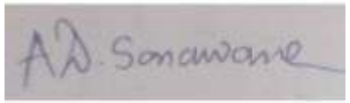
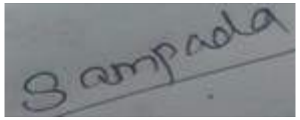
Skills (USIT105)	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03	Communication by Tata McGraw Hill	Black Board and Chalk
Unit IV	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		
	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

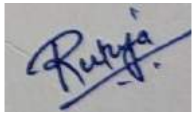
LEARNING OBJECTIVE/S:

- To develop the logical ability of the student.
- Basic concepts to be cleared using suitable examples.
- Different approach towards the problem.
- To handle the errors and find suitable solution.
- Debugging the code.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Programming Principles with C (USIT101) Unit II	Type of operators: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators	04	Programming with c Byron Gottfried Tata McGRAWHill 1996	Black board and chalk
	The conditional operator, Assignment operators and expression, Precedence and order of Evaluation Block Structure, Initialization, C Preprocessor	04		
	Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops- While and For LoopsDo-while, Break and Continue, Goto and Labels	04		

Programming Principles with C (USIT101) Unit IV	Pointer and Arrays Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays	04	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk
	Address Arithmetic, Character Pointers and Functions, Pointer Arrays: Pointers and Functions,	04		
	Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	04		
Programming Principles with C (USIT101) Unit V	Structures: Basics of structures, Structures and Functions, Arrays of Structures	04	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk
	Pointers to Structures, Unions, Bit-fields	04		
	File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error handling in C, Random access to files, Command line arguments.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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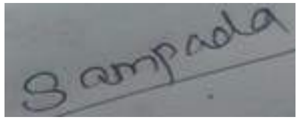

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: IT

CLASS: FYIT DIV C SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database.
- Remove redundant data by normalization.
- Understand basic database storage structures and access techniques and database recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit I	Database system- concept and Architecture: DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	06	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board and Chalk
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	03		
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	03		

Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	03	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	03		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		
Fundamentals of Database Management Systems (USIT103) Unit IV	Introduction to SQL: SQL introduction, datatypes, DDL-create,alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	04	SQL Complete Reference by James Groff	Black Board and Chalk
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multitable queries consideration	04		
	Query Processing and optimization. File structure, Hashing and Indexing	O4		

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Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	04	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, Database Management System by Ramakrishnan	Black Board and Chalk
	Concurrency control technique.	04		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYIT DIV C SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

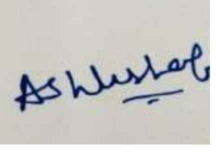
LEARNING OBJECTIVES:

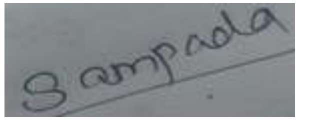
- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		

Digital Logic and Applications (USIT102) Unit II	Boolean algebra and Gate level minimization: Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions	12	Digital Logic Design Sonali Singh BPB publications.	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT:IT CLASS:FYIT-DIV C SEMESTER: SEM-1

MONTH: August to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, TITLE, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 1 Programming Principles With C, UNIT 1	**Introduction**: Algorithms, flowcharts Types of Programming languages, History, features and application. Simple program logic, program development cycle.	3	Let us c-by Yashwant Kanetkar	Black Board, Chalk, PPT
	pseudocode statements and flowchart symbols, sentinel value to end a program, programming and user environments, evolution of programming models., desirable program characteristics	3		
	Structure of a program. Compilation and Execution of a Program,Character Set, identifiers and keywords, data types	3		
	constants, variables and arrays, declarations, expressions, statements, Variable definition, Constants and its types, Character and character Strings, typedef, typecasting	3		

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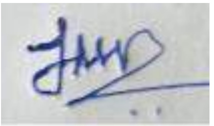
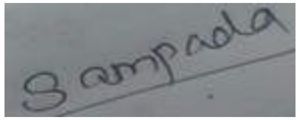
Unit 3	**Functions:** Overview, Basic of Functon, defining a function, accessing a function, passing arguments to a function, specifying argument data types, function prototypes, recursion, modular programming and functions, standard library of c functions	5	Let us c-by Yashwant kanetkar	Black Board, Chalk, PPT
	prototype of a function: foo1lal parameter list, return type,function call, block structure, passing arguments to a function: call by reference,call by value. Standard input and output	4		
	Line Input and Output, Error Handling- Std Error and Exit, Header Files.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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(W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-

23 LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit II	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity, Courtesy, Correctness. Conversations Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	03	Business Communication Meenakshi Raman &Prakash singh.	Black Board and Chalk
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	03		

Technical Communication Skills (USIT105) Unit IV	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business Communication by Tata McGraw Hill	Black Board and Chalk
	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03		
	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		
	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI
CLASS: FYIT DIV: C SEMESTER: I
LEARNING OBJECTIVES:

MONTH: SEPTEMBER TO NOVEMBER

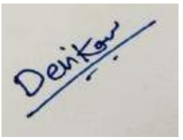
DEPARTMENT: CS
ACADEMIC YEAR: 2022-23

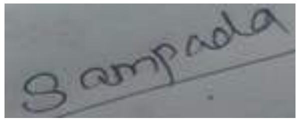
- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		

Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	04	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	05		
	Interview Introduction, objectives, types of interview, job interviews	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24





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TEACHING PLAN (UNIT

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:___AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	FUNCTIONS AND ALGORITHMS-Introduction, One to one function, onto function, invertible function, Exponential function, Logarithmic function,			
	Sequence, Indexed classes of sets ,Recursively defined function, Cardinality,Algorithms and function, Complexity of Algorithms PROBABLITY:- Introduction, sample space and events ,finite probability spaces, Conditional Probability, Independent Events, Independent Repeat Trial ,Binomial Distribution, Random variables, Chebyshevs Inequality, Low of large number	12	Discrete Mathematics	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT

12NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:___AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Graph Theory- Introduction, Data structure, Graph and multi graph,subgroup, Isomorphic Graph, Bridges of konigsbergs,Labeled and weighted graphs, Complete graphs, regular and biparatite graph, tree graph, planner graphs, graph coloring,graph algorithm, Traveling salesman problems solved problem DIRECTED GRAPHS Inttrroduction ,Directed graph, Basic definition rooted Trees, sequential representation of Directed graph, wRshall's algorithm shortest path,linked representation of directed graphs,Depth first and breath first searches,directed cycle free graphs ,Topological sort,pruning Algorithms for shortest path	12	Discrete Mathematics	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _II MONTH:____FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Numerical solution of 1st and 2nd order differential equations- Taylor series, Euler's simple formula Modified Euler's Method R-K seconds and fourth order. Least square Regression- Linear Regression, Polynomial Regression, Multilinear Regression, Nonlinear Regression, General Linear Least Squares Method	12	Numerical Techniques-R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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YIT SEM-III SUB-APPLIED MATHS-II DIV A

PROF –ARCHANA MALPATHAK

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak DEPARTMENT:Mathematics CLASS: SYIT SEMESTER: III MONTH: Aug to Nov ACADEMIC YEAR: 2022-2023 LEARNING OBJECTIVE/S

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Applied Maths II Unit-I Matrices and Complex Number	Matrices : Inverse,properties,Rank by Normal and Echelon form,Linearequations,Linear dependent and independent Linear transformation,ch roots and ch vectors Caley Hamiltonian theroem,Similarity of matrix,Digonal matrix Complex number - complex number equality of complex numberArgand digram,polar form and exponential of complex numberHyperbolic and Logarithmic function of complex number	12	Applied Maths by G.V.Kumbojkar Higher Engineering of mathematics TechMax	Black board and chalk

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana
Malpathak. DEPARTMENT: Mathematics CLASS: SYIT SEMESTER: II
MONTH: Aug to November ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to :____Variable separable,subtitutionmethod,Homogenous,Non homogeneous, Exavt differential equation,Non exact fifgerential equation, Integrating factor ,bernoullis differential,higher order differential equation solvable for Y,P,X .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Applied Maths -II UNIT -II Differential equations	1) Equation of the first order and first degree :Sepratation of variables,Equation homogenous in x and y ,Non homogenous,Exactdifferential, 2)Integrating factor,Bernouils Equation ,Subtitution method general method,other methods 3)Diff equ of higher degree -Solvable for p, for X ,for YClairauts form of equationMethod of sepration, 4)Linear differential with constant coefficients -Differential operator,f(D)=0.f(D)=x ,1/f(D),1/f(D) X	3+3+3+3 =12	G.v.kumbojkar Higher Engineering of mathematics Balguru swami TechMax R.M.Baphna	Blackboard ,chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak. DEPARTMENT: Mathematics. CLASS: SYIT.

SEMESTER: III MONTH: J uly To Nov ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Double integration ,Types of double ,Triple Integration,Types oftriple, Area volume for double and triple integration

Applied the order of the Higher

Mathematics UNIT 3) Application of Engineering of
integration,Double

-IV Multiple integral in polar co integration Mathe
integral - ordinates :Areas,Volumes of. matics
1) Multiple solids Tech
Intigration Double 2) Triple integral. Max
Integral,Change 4+4+4 =12 R .M.Baphna
of. Black board ,chalk

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TEACHING PLAN (UNIT

NAME OF THE STAFF: -ARCHANA MALPATHAK Malpathak DEPARTMENT: Mathematics CLASS: -SYIT
SEMESTER:
III MONTH: -JULLY TO_ NOVEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTUR ES ALLOTE D	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied Maths II (SYIT) UNIT-V Beta Ga mma Functio n	1) Beta Gamma function -Defination,properties and problems,Duplication Formula 2) Differentiation Under Integral Sign 3)Error functions	5+4+3=12	Tech max Higher Engineering of mathematics Applied Maths II Nirali publication	Blackboard,chalk

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK   DEPARTMENT: IT   SUB: Computer Networks   CLASS:SYIT DIV: A

SEMESTER:III

MONTH:JUNE-SEPTEMBER ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
- To be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Computer Networks USIT 303 Unit - 1	**Introduction:** Data communications, networks, network types, Internet history, standards and administration. **Network Models**: Protocol layering, TCP/IP protocol suite, The OSI model. **Introduction to Physical layer:** Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance. **Digital and Analog transmission**: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	12	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

Computer Networks USIT 303 Unit - 2	**Bandwidth Utilization**: Multiplexing and Spectrum Spreading: Multiplexing, Spread Spectrum **Transmission media**: Guided Media, Unguided Media **Switching:** Introduction, circuit switched networks, packet switching, structure of a switch. **Introduction to the Data Link Layer:** Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	12	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point
Computer Networks USIT303 Unit - 3	**Data Link Control:** DLC services, data link layer protocols, HDLC, Point-to-point protocol. **Media Access Control**: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet, **Wireless LANs:** Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks. **Connecting devices and Virtual LANs**.	10	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

TEACHING PLAN (UNIT

Computer Networks USIT303 Unit - 4	**Introduction to the Network Layer**: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP **Unicast Routing:** Introduction, routing algorithms, unicast routing protocols. **Next generation IP:** IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6	10	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point
Compute Networks USIT303 Unit - 5	**Introduction to the Transport Layer:** Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n 12 9 protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol, **Standard Client0Server Protocols**: World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system	8	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____HEMANT WANI__ DEPARTMENT:______Information Technology___CLASS:_SYIT_(A)
SEMESTER - III MONTH:_____July_ ACADEMIC YEAR:_____2022-23__
LEARNING OBJECTIVE/S:
The learners will be able to: Develop understanding of the concept of Transaction.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Management Systems USIT304 Unit 1	**Introduction to Databases and Transactions-** What is database system, purpose of database system. View of data, relational databases, Database architecture and transaction management.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Data Models , ER-Diagram and UML	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

	Database design and ER-Model: overview, ER_model Constraints, ERD Issues, Codd's Ruls.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT: Information Technology CLASS: SYIT (A)

SEMESTER - III MONTH: August ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Relational Algebra and also learning the Constraints.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Management Systems USIT304 Unit 2	Relational Database model: Logical views of data, keys, integrity rules, Relational Database design. Normalization.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Relational algebra: introduction, Selection and projection set operations, renaming, Joins, Division, syntax, semantics. Operators, grouping and ungrouping.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Calculus: Tuple relational calculus, Domain relational calculus, calculus vs algebra	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
DBMS USIT304	Constraints, types of constraints, integrity constraints.	4	Database System and Concepts by	Black Board and Chalk, Google Meet

Unit 3	Views: Introduction to views, data independence, security.		A Silberschatz, H Korth, S Sudarshan	and Power Point Presentation
Database Mgmt. Systems USIT304 Unit 3	Updates on views, comparison on tables and views.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	SQL: Data definition, aggregate function, Null values, nested queries, join relations. Triggers.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

NAME OF THE STAFF: HEMANT WANI DEPARTMENT: Information Technology CLASS: SYIT (A)

SEMESTER - III MONTH: September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: PL/SQL, Cursors

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DBMS USIT304 Unit 4	Transaction mgmt. ACID Properties, serializability and concurrency control,	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	2PL and Deadlocks, Time stamping methods, optimistic.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Database Recover Management	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
DBMS USIT304 Unit 5	PL-SQL: Beginning with PL/SQL, Identifiers and keywords, Operators, Expressions, Sequences, Cursors and its types.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

DBMS USIT304 Unit 5	Transaction, Collection and composite data types, Procedures and functions, Exception Handling, Packages.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	With clause and Hierarchical Retrieval, Triggers.	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MRS. KSHITIJA. P. MANE (PALAV)**________________DEPARTMENT:_______**INFORMATION TECHNOLOGY**CLASS:**SY.B SC(IT)-A__** SEMESTER:____**III_**MONTH

JUNE-SEPTEMBER ACADEMIC YEAR:**2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understand the concept of data structure and how it is stored. The varieties of symbols used to store data, analysis on data, algorithms used to reduce the complexity regarding time, space and programs. Understanding the concept of Arrays and operations on array, Stack and Queue and variation of operation on them. To make understand applications where it is used , advantages and disadvantages of operation. To enable to practically generate code for it and implement it for data storage.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 (USIT302) Data Structures **Unit No -01**	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation.	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

	Array: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, SparseMatrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -03	**Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion**.**	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues.	06	A Simplified Approach to Data Structures by	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

			Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: IT
CLASS: SYIT-A SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to learn different structures of data, their operations, and algorithms.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES (USIT302) Unit II	**Linked List:** Introduction to Subject, Syllabus, Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, copying a List into Other List, Merging Two Linked Lists, splitting a List into Two Lists, Reversing One-way linked List, Circular Linked List, Applications of Circular Linked List	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
	Two-way Linked List, traversing a Two-way Linked List, searching in a Two-way linked List, Insertion of an element in Two-way Linked List, deleting a node from Two-way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
DATA STRUCTURES (USIT302) Unit IV	**Sorting and Searching Techniques:** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	3	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	PPT, Black Board and Chalk
	Tree: Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary	6		PPT, Black Board and Chalk

	Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort			
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, and Operations performed on AVL Tree, 23 Tree, B-Tree.	3		PPT, Black Board and Chalk
DATA STRUCTURES (USIT302) Unit V	**Hashing Techniques** Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Bucket hashing, Deletion, and rehashing	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
	Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, Graph Traversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees	6		Black Board and Chalk, https://liveexample.pearsoncmg.com /dsanimation13ejava/ GraphLearningTool.html

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: INFORMATION TECHNOLOGY CLASS: S.Y.B.Sc.IT

SEMESTER: III MONTH: JUNE - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Students should be able to understand the concepts of programming before actually starting to write programs.
- Students should be able to develop logic for Problem Solving.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Unit I Python Programming	**Introduction:** The Python Programming Language, History, features, Installing Python, Running Python program,	3	Think Python Allen Downey O'Reilly 1st2012	
	Debugging : Syntax Errors, Runtime Errors, Semantic Errors, Experimental Debugging, Formal and Natural Languages, The Difference Between Brackets, Braces, and Parentheses,	3		BLACKBOARD & CHALK
	Variables and Expressions Values and Types, Variables, Variable Names and Keywords, Type conversion, Operators and Operands, Expressions, Interactive Mode and Script Mode, Order of Operations.	3		BLACKBOARD & CHALK
	Conditional Statements: if, if-else, nested if –else	1		BLACKBOARD & CHALK
	Looping: for, while, nested loops Control	1		BLACKBOARD & CHALK

	statements: Terminating loops, skipping specific conditions	1		BLACKBOARD & CHALK
Paper-I Unit II Python Programming	**Functions:** Function Calls, Type Conversion Functions, Math Functions, Composition, Adding New Functions,	2	Think Python Allen Downey O'Reilly 1st2012	BLACKBOARD & CHALK
	Definitions and Uses, Flow of Execution, Parameters and Arguments, Variables and Parameters Are Local, Stack Diagrams, Fruitful Functions and Void Functions, Why Functions?	3		BLACKBOARD & CHALK
	Importing with from, Return Values, Incremental Development, Composition, Boolean Functions, More Recursion, Leap of Faith, Checking Types	3		BLACKBOARD & CHALK
	Strings: A String Is a Sequence, Traversal with a for Loop, String Slices, Strings Are Immutable, Searching, Looping and Counting, String Methods, The in Operator, String Comparison, String Operations	4		BLACKBOARD & CHALK
Paper-I Unit III Python Programming	**Lists:** Values and Accessing Elements, Lists are mutable, traversing a List, Deleting elements from List, Built-in List Operators, Concatenation, Repetition, In Operator, Built-in List functions and methods	4	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Tuples and Dictionaries: Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in Tuple Functions Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods	4		PPT BLACKBOARD & CHALK
	Files: Text Files, The File Object Attributes, Directories	2		PPT BLACKBOARD & CHALK
	Exceptions: Built-in Exceptions, Handling Exceptions, Exception with Arguments, User-defined Exceptions	2		PPT BLACKBOARD & CHALK

Paper-I Unit IV Python Programming	**Regular Expressions –** Concept of regular expression, various types of regular expressions, using match function.	2	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Classes and Objects: Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding	4		PPT BLACKBOARD & CHALK
	Multithreaded Programming: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue	3		PPT BLACKBOARD & CHALK
	Modules: Importing module, Creating and exploring modules, Math module, Random module, Time module	3		PPT BLACKBOARD & CHALK
Paper-I Unit V Python Programming	**Creating the GUI Form and Adding Widgets:** **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. Handling Standard attributes and Properties of Widgets.	4	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Layout Management: Designing GUI applications with proper Layout Management features.	2		PPT BLACKBOARD & CHALK
	Look and Feel Customization: Enhancing Look and Feel of GUI using different appearances of widgets.	2		PPT BLACKBOARD & CHALK
	Storing Data in Our MySQL Database via Our GUI : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database.	4		PPT BLACKBOARD & CHALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE STAFF

Sampada

SIGNATURE OF THE H.O.D.

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Sampada Deshmukh DEPARTMENT: Information Technology
CLASS:S.Y.B.Sc.(I.T) SEMESTER: III MONTH:JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the basics of Data Communication and concept of networking
- Understand the concept of Analog and Digital Signal.
- Understand the Network Model and their working for data transmission.
- Learn conversion of digital to analog and vice-versa.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 Computer Networks Unit 1	**Introduction**: Data communications, networks, network types, Internet history,standards and administration.	4	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk
	Network Models:Protocol layering, TCP/IP protocol suite, The OSI model.	2	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk
	Introduction to Physical layer:Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.	3	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

	Digital and Analog transmission: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	3	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Dr. Sampada Deshmukh DEPARTMENT:Information Technology
CLASS:S.Y.B.Sc.(I.T) SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR:2022-23
LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand different transmission level protocol.
- Learn Client server Protocol and their application

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 Computer Networks Unit 5	**Introduction to the Transport Layer:** Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol	8	TCP/IP Protocol Suite By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

	Standard Client Server Protocols: World-wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.	4	TCP/IP Protocol Suite By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Sampada

SIGNATURE OF THE STAFF

Sampada

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:S.Y.BSC(I.T) DIV-B SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:COMPUTER NETWORKS

LEARNING OBJECTIVE/S:
The learners will be able to : The **course objectives** include **learning** about **computer network** organization and implementation, obtaining a theoretical understanding of data communication and **computer networks**, and gaining practical experience in installation, monitoring, and troubleshooting of current LAN systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTER NETWORKS USIT303 Unit-2	**Bandwidth Utilization:** Multiplexing and SpectrumSpreading: Multiplexing, Spread Spectrum	5	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill	PowerPoint Presentation
	Transmission media: Guided Media, Unguided Media	4		
	Switching: Introduction, circuit switched networks, packet switching, structure of a switch.	5		

	Introduction to the Data Link Layer:Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	5	Fifth Edition 2013	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**19**		
COMPUTER NETWORKS USIT303 Unit-3	**Data Link Control:**DLC services, data link layer protocols, HDLC, Point-to-point protocol.	5	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	PowerPoint Presentation
	Media Access Control: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet,	5		
	Wireless LANs: Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks.	3		
	Connecting devices and Virtual LANs.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		
COMPUTER NETWORKS USIT303 Unit-4	**Introduction to the Network Layer:** Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP	5	Data Communication and Networking	

	Unicast Routing:Introduction, routing algorithms, unicast routing protocols.	4	Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	
	Next generation IP: IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6.	4		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: SYBSc(IT) DIV:B SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the different types of data structures and develop programs to search and sort for elements.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USIT302 unit:1, Title: Data Structures	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation.	5	A Simplified Approach to Data Structures	Blackboard Projector
	Array:Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, SparseMatrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	7	A Simplified Approach to Data Structures	Blackboard Projector

Paper: USIT302 unit:2, Title: Data Structures	**Linked List:** Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List,	6	A Simplified Approach to Data Structures	Blackboard Projector
	Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures.	6	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:3, Title: Data Structures	**Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion.	5	A Simplified Approach to Data Structures	Blackboard Projector
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue,Some special kinds of queues, Deque,Priority Queue, Application of Priority Queue, Applications of Queues.	7	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:4, Title:	**Sorting and Searching Techniques** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	4	A Simplified Approach to Data Structures	Blackboard Projector

Data Structures	**Tree:**Tree,Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree,Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.	4	A Simplified Approach to Data Structures	Blackboard Projector
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 2-3 Tree, B-Tree.	4	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:5, Title: Data Structures	**Hashing Techniques** Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic,Double hashing, Buckethashing, Deletion and rehashing	6	A Simplified Approach to Data Structures	Blackboard Projector
	Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, GraphTraversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees.	6	A Simplified Approach to Data Structures	Blackboard Projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS: SY BSc IT DIV-B(DBMS) SEMESTER:SEM 3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- The learners will be able to : have a broad understanding of database concepts and database management system software
- have a high-level understanding of major DBMS components and their function
- be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
- be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.
- be able to program a data-intensive application using DBMS APIs.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 DBMS UNIT 1	Introduction to Databases and Transactions What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Data Models The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction.	4		
	Database Design,ER Diagram and Unified Modeling Language Database design and ER Model:overview, ERModel, Constraints, ERDiagrams, ERDIssues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML	4		
	Relational database model: Logical view of data, keys, integrity rules,	3		Black board and chalk

UNIT 2	Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF).	3	DATABASE SYSTEM AND CONCEPTS BY H KORTH	
	Relational Algebra and Calculus Relational algebra: introduction, Selection and projection, set operations, renaming,Joins, Division, syntax, semantics	3		
	. Operators, grouping and ungrouping,relational comparison	2		
	Calculus: Tuple relational calculus, Domain relational Calculus, calculus vsalgebra,computational capabilities	4		
UNIT 3	Constraints, Views and SQL Constraints, types of constrains, Integrity constraints,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Views: Introduction to views, data independence, security, updates on views,comparison between tables and views	4		
	SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers	4		
UNIT 4	Transaction management and Concurrency Control Transaction management: ACID properties, serializability and concurrency control,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Lock based concurrency control (2PL, Deadlocks),Time stamping methods,	4		
	optimistic methods, database recovery management.	4		
UNIT 5	PL-SQL: Beginning with PL / SQL,Identifiers and Keywords, Operators, Expressions, Sequences	4	PROGRAMMING WITH PL/SQL FOR BEGINNERS BY H. DAND,R. PATIL	Black board and chalk
	,Control Structures, Cursors and Transaction,	4		
	Collections and composite data types, Procedures and Functions, Exceptions Handling ,Packages,With Clause and Hierarchical Retrieval,Triggers.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI. DEPARTMENT: INFORMATION TECHNOLOGY CLASS: S.Y.B.Sc.IT
SEMESTER: III MONTH: JULY-OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

- Students should be able to understand the concepts of programming before actually starting to write programs.
- Students should be able to develop logic for Problem Solving.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Unit IV Python Programming	**Regular Expressions –** Concept of regular expression, various types of regular expressions, using match function.	2	Think Python Allen Downey O'Reilly 1st2012	Google Meet, PPT
	Classes and Objects: Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding	4		Google Meet, PPT
	Multithreaded Programming: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue	3		Blackboard, Chalk
	Modules: Importing module, Creating and exploring modules, Math module, Random module, Time module	3		Blackboard, Chalk
Paper-I Unit V Python Programming	**Creating the GUI Form and Adding Widgets:** **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. Handling Standard attributes and Properties of Widgets.	4	Think Python Allen Downey O'Reilly 1st 2012	Blackboard, Chalk

	Layout Management: Designing GUI applications with proper Layout Management features.	2		Blackboard, Chalk
	Look and Feel Customization: Enhancing Look and Feel of GUI using different appearances of widgets.	2		Blackboard, Chalk
	Storing Data in Our MySQL Database via Our GUI : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database.	4		Blackboard, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF D. Pawar

SIGNATURE OF THE H.O.D. Sampada

Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)- DATA STRUCTURE

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: SYIT (C)

SEMESTER: III MONTH: JULY- SEPT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Get deep knowledge about different types of data structures and also the importance of algorithm and its complexity.
- Understand the use of array and different types of linked list.
- Learn about stack, stack operations, queue and different types of it.
- Understand the use of different sorting and searching techniques.
- Learn about graph theory and different types of hashing techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT302, Data Structures, Unit I	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Array: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General MultiDimensional Arrays, Sparse Arrays, Sparse Matrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

USIT302, Data Structures, Unit III	**Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion**.**	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues.	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT302, Data Structures, Unit IV	**Sorting and Searching Techniques** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	04	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Tree: Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.	05	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 23 Tree, B-Tree	03	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: COMPUTER SCIENCE
CLASS: S.Y.B.Sc.IT SEMESTER: III MONTH: JULY-SEP ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to: to be capable of managing complex IT projects with consideration of the human, financial and environmental factors. to work effectively as a part of a team to achieve a common stated goal.to adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:-III TITLE:- Computer Networks UNIT 1	**Introduction:** Data communications, networks, network types, Internet history, standards and administration.	3	Data Communication and Networking By Behrouz A. Forouzan	Chalk and Board
	Network Models: Protocol layering, TCP/IP protocol suite, The OSI model.	2		
	Introduction to Physical layer: Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.	3		
	Digital and Analog transmission: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	2		
UNIT 2	**Bandwidth Utilization: Multiplexing and Spectrum Spreading:** Multiplexing, Spread Spectrum	3	Data Communication and Networking By Behrouz A.	Chalk and Board
	Transmission media: Guided Media**,** Unguided Media	2		
	Switching: Introduction, circuit switched networks, packet switching, structure of a switch.	3		

	Introduction to the Data Link Layer: Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	3	Forouzan	
UNIT 3	**Data Link Control:** DLC services, data link layer protocols, HDLC, Point-to-point protocol.	2	Data Communication and Networking By Behrouz A. Forouzan	Chalk and Board
	Media Access Control: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet,	3		
	Wireless LANs: Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks.	2		
	Connecting devices and Virtual LANs.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 31

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Suvarna S Kannav DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: SYIT DIV: C SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: The learners will be able to : List various applications of computer networks, describe the concepts, protocols, design, implementation and use of computer networks. Also implement and evaluate new ideas for solving computer network design issues.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
USIT303, Computer Networks, UNIT-IV	Introduction to the Network Layer: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP	05	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition 2, Computer Networks Andrew Tanenbaum Pearson Fifth 2013, TCP/IP Protocol Suite Behrouz A. Forouzan Tata McGraw Hill Fourth Edition 2010	PowerPoint Presentation, OHP, Chalk and Black Board
	Unicast Routing: Introduction, routing algorithms, unicast routing protocols.	02		PowerPoint Presentation, OHP, Chalk and Black Board
	Next generation IP: IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6	05		PowerPoint Presentation, OHP, Chalk and Black Board
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**12**		
USIT303, Computer Networks, UNIT-V	Introduction to the Transport Layer: Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport 12 8 layer services, User datagram protocol, Transmission control protocol,	07	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth	PowerPoint Presentation, OHP, Chalk and Black Board

	Standard Client0Server Protocols: World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.	05	Edition 2, Computer Networks Andrew Tanenbaum Pearson Fifth 2013, TCP/IP Protocol Suite Behrouz A. Forouzan Tata McGraw Hill Fourth Edition 2010	PowerPoint Presentation, OHP, Chalk and Black Board
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**12**		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS: SY BSc IT DIV-C(DS) SEMESTER:SEM 3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To understand the different data structure techniques .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Data Strucures Paper 2 Code: USIT302 Unit 2	Linked List: Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List, Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures.	12	An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson Tata MacGraw Hill	Black board& Chalk
	Hashing Techniques Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Bucket hashing, Deletion and rehashing	6	An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson	Black board& Chalk

<table>
<tr><td rowspan="2">Data Strucures
Paper 2
Code:
USIT302
Unit 5</td><td></td><td></td><td>Tata MacGraw HillMcEwen, Hakim Cassimally</td><td></td></tr>
<tr><td>Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, GraphTraversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees</td><td>6</td><td>An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson Tata MacGraw Hill</td><td>Black board& Chalk</td></tr>
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Advanced Web Programming** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun to Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To learn the fundamental aspects of the JavaScript programming language and how to program using document object model application programming

The learners will be able to :

- To understand .Net framework and its run time environment.
- To gain basic knowledge of C# language with its object oriented concept.
- To gain the knowledge of namespaces and assemblies.
- To understand fundamentals of web application development.
- To make use of different server controls like validation, navigation and rich server control.
- To understand back hand connectivity with SQL using ADO .Net Frame.
- To use data binding with data controls like grid view, details view and form view.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT503 **Advanced Web Programming** UNIT-1	**Introducing .NET**: The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library. **The C# Language**: C# Language Basics, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods. **Types, Objects, and Namespaces**: The Basics About Classes,	12	1. Beginning Visual C# 2010 2. Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB,	PPT, Google meets.

	Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.			
USIT503 **Advanced Web Programming** UNIT-2	**Web Form Fundamentals**: Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application. **Form Controls**: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control.	12	1. Beginning Visual C# 2010 2. Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-3	**Error Handling, Logging, and Tracing**: Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing **State Management**: Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies,	12	1. Beginning Visual C# 2010 2. Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

	Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options **Styles, Themes, and Master Pages**: Styles, Themes, Master Page Basics, Advanced Master Pages,			
USIT503 **Advanced Web Programming** UNIT-4	**ADO.NET Fundamentals**: Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access. **Data Binding**: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, **The Data Controls**: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DetailsView and FormView	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-5	**XML**: XML Explained, The XML Classes, XML Validation, XML Display and Transforms. **Security Fundamentals**: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. **ASP.NET AJAX**: Understanding Ajax, Using Partial Refreshes, Using Progress Notification, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: TYIT (A)

SEMESTER: V MONTH: JUNE-SEPT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit I	**Understanding Java EE:** What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets? What can Servlets do?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Servlet API and Lifecycle: Java Servlet API, The Servlet Skeleton, The Servlet Life Cycle, A Simple Welcome Servlet	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Databases: What Is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit II	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	SESSION: What Are Sessions? Lifecycle Of Http Session, Session Tracking With Servlet API, A Servlet Session Example	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Non-Blocking I/O: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit III	**Introduction To Java Server Pages:** Why use Java Server Pages? Disadvantages Of JSP, JSP v\s Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters for other Actions, Loading a Javabean.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language [Unified El], Expression Language.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriptlet Tags? How JSTL Fixes JSP Scriptlet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit IV	**Introduction To Enterprise Javabeans:** Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateful Session Bean, Example of Stateless Session Bean, Example of Singleton Session Beans.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Message Driven Beans: Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Interceptors: Request And Interceptor, Defining An Interceptor, AroundInvoke Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Naming and Directory Interface: What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

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	Persistence, Object/Relational Mapping And JPA: What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object/Relational Mapping,	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java **Unit V**	**Writing JPA Application:** Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in Mysql, Creating a Web Application, Adding the Required Library Files, Creating a Javabean Class, Creating Persistence Unit [Persistence.Xml], Creating JSPS, The JPA Application Structure, Running The JPA Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The Application, Components of Hibernate, Architecture of Hibernate, How Hibernate Works?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing Hibernate Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in Mysql, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPS, Running The Hibernate Application.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartak DEPARTMENT: Information Technology CLASS: TYIT

SEMESTER: V MONTH: June to Oct ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To determine the market perspective of IoT

To compare and contrast the use of devices, gateways and Data management in IoT

To illustrate the applications of IoT in Industrial Automation and identify Real world design constraints.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Internet Of Things Unit 1	**The Internet of Things:** An Overview: The Flavour of the Internet of Things, The "Internet" of "Things", The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things?	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data Is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Graceful Degradation, Affordances	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses, DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS: Encrypted HTTP, Other Application Layer Protocols.	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 2	**Thinking About Prototyping:** Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation, climbing into the Cloud, Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Prototyping Embedded Devices: Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chips, Choosing Your Platform, Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 3	**Prototyping the Physical Design:** Preparation, Sketch, Iterate, and Explore, Nondigital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling. Prototyping and Presence Protocol, Constrained Application	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

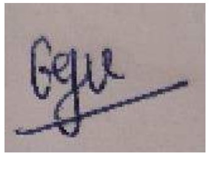
	Protocol.			

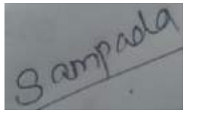
	Online Components: Getting Started with an API, Mashing Up APIs, Scraping, Legalities, writing a New API, Clockodillo, Security, implementing the API, Using Curl to Test, Going Further, Real-Time Reactions, Polling, Comet, Other Protocols, MQ Telemetry Transport, Extensible Messaging	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 4	**Techniques for Writing Embedded Code:** Memory Management, 12 8 Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries, Debugging.	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Business Models: A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models, Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, take a Percentage, Funding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Lean Startups.	8	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 5	**Moving to Manufacture:** What Are You Producing? Designing Kits, Designing Printed circuit boards, Software Choices, The Design Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards. Assembly, Testing, Mass-Producing the Case and Other Fixtures, Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Community.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

	Ethics: Characterizing the Internet of Things, Privacy, Control, Disrupting Control,Crowdsourcing, Environment, Physical	6	Designing the Internet of Things Adrian	Laptop, PPT, Google Meet

	Thing, Electronics, Internet Service, Solutions, The Internet of Things as Part of the Solution, Cautious Optimism, The Open Internet of Things Definition.		McEwen, Hakim Cassimally	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: TYBSc(IT) Div:A SEMESTER: V MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the importance of software project management, project evaluation and programme management was easy,to provide knowledge of step wise planning and monitoring, understand the importance of becoming a team and decision making and project closeout.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USIT501 unit:1, Title: Software Project Management	**Introduction to Software Project Management**:Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

	Project Evaluation and Programme Management: Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
	An Overview of Project Planning:Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
Paper: USIT501 unit:5, Title:	**Working in Teams:** Introduction, becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres, Communication Plans, Leadership.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

Software Project Management	**Software Quality:** Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.	5	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closeout Report.	3	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUVARNA S KANNAV DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:T.Y.BSC(I.T) DIV-A SEMESTER: **V** MONTH:JUNE-OCTOBER ACADEMIC YEAR: 2022-2023

SUBJECT:SOFTWARE PROJECT MANAGEMENT

LEARNING OBJECTIVE/S:
The learners will be able to : Apply project management concepts and techniques to an IT project. Identify issues that could lead to IT project success or failure. Explain project management in terms of the software development process. Describe the responsibilities of IT project managers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Project Management USIT501 Unit-2	**Selection of an Appropriate Project Approach:** Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Software Effort Estimation: Introduction, where are the Estimates Done? Problems with Over- and Under-Estimates, The	5		

	Basis for Software Estimating, Software Effort Estimation Techniques, Bottom up Estimating, The Top-down Approach and Parametric Models, Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Capers Jones Estimating Rules of Thumb.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**10**		
Software Project Management USIT501 Unit-3	**Activity Planning:** Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks.	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm"s Top 10 Risks and Countermeasures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.	4		
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.	3		

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**11**		
Software Project Management USIT501 Unit-4	**Monitoring and Control:** Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Managing Contracts: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.	4		
	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**11**		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: TYBSCIT SEMESTER:V

MONTH: **JUNE-OCT** ACADEMIC YEAR:**22-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understand fundanentals of project

Be familiar with diff methods and tools used for project management

Do the project planning,scheduling,costing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT501 Software Project Management UNIT-1	**Introduction to Software Project Management**:Introduction, Whyis Software Project Management Important? What is a Project?Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies,Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Successand Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Project Evaluation and Programme Management: Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Techniques, Risk Evaluation, Programme Management,			

USIT501 Software Project Management UNIT-2	Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.			
	An Overview of Project Planning :Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	03	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Selection of an Appropriate Project Approach: Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	06	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Software Effort Estimation: Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottomup Estimating, The Top-down Approach and Parametric Models,Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points,COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of	06	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Schedule Compression, Capers Jones Estimating Rules of Thumb.			
USIT501 Software Project Management UNIT-3	**Activity Planning:** Introduction, Objectives of Activity Planning,When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating aNetwork Model, Adding the Time Dimension, The Forward Pass,Backward Pass, Identifying the Critical Path, Activity Float,Shortening the Project Duration, Identifying Critical Activities,Activity-on-Arrow Networks.	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, RiskIdentification, Risk Assessment, Risk Planning, Risk Management,Evaluating Risks to the Schedule, Boehm‟s Top 10 Risks and Counter Measures, Applying the PERT Technique, Monte Carlo Simulation,Critical Chain Concepts	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
USIT501 Software Project Management	**Monitoring and Control**: Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

UNIT-4	**Managing Contracts**: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

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	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.	03	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
USIT501 Software Project Management UNIT-5	**Working in Teams:** Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres, Communication Plans, Leadership	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Software Quality : Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability,Quality Plans.	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project CloseoutReport	02	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: DR. PRIYANKA ROSHAN BRID   DEPARTMENT: IT   CLASS: TYIT (B)

SEMESTER: V   MONTH: JUNE-SEPT   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit I	**Understanding Java EE:** What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets? What can Servlets do?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Servlet API and Lifecycle: Java Servlet API, The Servlet Skeleton, The Servlet Life Cycle, A Simple Welcome Servlet	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Databases: What Is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit II	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	SESSION: What Are Sessions? Lifecycle Of Http Session, Session Tracking With Servlet API, A Servlet Session Example	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Working With Non-Blocking I/O: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit III	**Introduction To Java Server Pages:** Why use Java Server Pages? Disadvantages Of JSP, JSP v\s Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters for other Actions, Loading a Javabean.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language [Unified El], Expression Language.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriptlet Tags? How JSTL Fixes JSP Scriptlet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -I	**Introduction to Red Hat Enterprise Linux:** Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.	2	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Command Line: Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files	4		PowerPoint Presentation
	System Administration Tasks: Job Tasks, Process Monitoring and Management, Mounting Devices, Links, Backups, Printers, Logging, Rsyslog, Common Log Files, Setting Up Logrotate	4		PowerPoint Presentation
	Managing Software: Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages	2		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -II	**Configuring and Managing Storage:** Partitions, File systems, logical volumes, Snapshots, Replacing Failing Storage Devices, Swap Space, Encrypted Volumes	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Connecting to the Network: Configuring the Network with NetworkManager and command line, Services and Runlevels, system-config-network, Network Service Scripts, Troubleshooting, IPv6, Configuring SSH Server and Client, Key-Based SSH Authentication, SSH Port Forwarding, VNC Server Access	4		PowerPoint Presentation
	Working with Users, Groups, and Permissions: Creating, deleting and modifying Users, Groups, user accounts with Commands and GUI , Passwords, Using External Authentication Sources, sssd, nsswitch, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, ACL, umask, Attributes	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

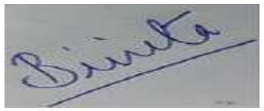
NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -III	**Securing Server with iptables:** Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Setting Up Cryptographic Services: Introducing SSL, Proof of Authenticity: the Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files	4		PowerPoint Presentation
	Configuring Server for File Sharing: What is NFS? Advantages and Disadvantages of NFS, Configuring NFS4, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Automount, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services.	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -IV	**Configuring DNS and DHCP:** Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Setting Up a Mail Server: Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mutt, Basic Configuration, Internet Configuration, Configuring Dovecot for POP and IMAP	4		PowerPoint Presentation
	Configuring Apache on Red Hat Enterprise Linux: Configuring the Apache Web Server, Creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with .htpasswd, Configuring LDAP Authentication, Setting Up MySQL	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -V	**Introducing Bash Shell Scripting:** Introduction, Elements of a Good Shell Script, Executing the Script, Variables and Input, Subshells, Script Arguments, Asking for Input, Command Substitution, Substitution Operators, Pattern Matching, Performing Calculations, Using Control Structures- if...then...else, case, while, until, for, Configuring booting with GRUB.	6	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	High-Availability Clustering: Workings of High Availability- Requirements, Add-on Software, Components, Cluster-Based Services, Bonding, Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Additional Cluster Properties, Quorum Disk, Fencing, Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File Systems	3		PowerPoint Presentation
	Setting Up an Installation Server: Network Server as an Installation Server, Installing the TFTP Server, Configuring DHCP for PXE Boot, Kickstart File, system-config-kickstart, Manual Modifications to the Kickstart File	3		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Brijesh Yatindra Joshi **Advanced Web Programming** DEPARTMENT: Information Technology. CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun to Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To learn the fundamental aspects of the JavaScript programming language and how to program using document object model application programming

The learners will be able to :

- To understand .Net framework and its run time environment.
- To gain basic knowledge of C# language with its object oriented concept.
- To gain the knowledge of namespaces and assemblies.
- To understand fundamentals of web application development.
- To make use of different server controls like validation, navigation and rich server control.
- To understand back hand connectivity with SQL using ADO .Net Frame.
- To use data binding with data controls like grid view, details view and form view.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT503 **Advanced Web Programming** UNIT-1	**Introducing .NET**: The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library. **The C# Language**: C# Language Basics, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods. **Types, Objects, and Namespaces**: The Basics About Classes, Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB,	PPT, Google meets.

USIT503 **Advanced Web Programming** UNIT-2	**Web Form Fundamentals**: Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application. **Form Controls**: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-3	**Error Handling, Logging, and Tracing**: Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing **State Management**: Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies, Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options **Styles, Themes, and Master Pages**: Styles, Themes, Master Page Basics, Advanced Master Pages,	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web**	**ADO.NET Fundamentals**: Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010,	PPT, Google meets.

Programming UNIT-4	**Data Binding**: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, **The Data Controls**: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DetailsView and FormView		3. Beginning ASP.NET 4 in C# and VB	
USIT503 **Advanced Web Programming** UNIT-5	**XML**: XML Explained, The XML Classes, XML Validation, XML Display and Transforms. **Security Fundamentals**: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. **ASP.NET AJAX**: Understanding Ajax, Using Partial Refreshes, Using Progress Notification, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Enterprise JAVA** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun To Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To support for many industry standards and continues simplification of enterprise ready APIs.

The learners will be able to :

- To understand Java Enterprise edition with its different technologies.
- To understand Java EE architectural server and contains.
- To understand server side technology like Java Servlets with its API and life cycle.
- To make data base connectivity using JDBC.
- To navigate using request dispatcher interface.
- To understand state management using cookies and session.
- To understand how to upload and download the file.
- To be able to work with non-blocking I/O resources.
- To understand server side technology like Java Server Pages.
- To make use of action elements, implicit objects, expression language and JSTL.
- To understand enterprise bill, architectural and its bill.
- To be able to working with session beans and message driven beans.
- To understand interceptors and JNDI.
- To make use of ORM and JPA with its API.
- To understand writing JPA application.
- To be able to understand hibernate architectural and components.
- To understand writing hibernate application.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506 **ENTERPRISE JAVA** UNIT-1	**Understanding Java EE:** WhatisanEnterpriseApplication? Whatisjavaenterpriseedition? JavaEETechnologies, JavaEEevolution, Glassfishserver **JavaEE Architecture,Serverand Containers:** TypesofSystemArchitecture, JavaEEServer, JavaEEContainers. **Introduction to Java Servlets:** TheNeedforDynamicContent, JavaServletTechnology, WhyServlets? WhatcanServletsdo? **Servlet API and Lifecycle:** JavaServletAPI, TheServletSkeleton, TheServletLifeCycle, ASimpleWelcomeServlet **WorkingwithServlets:** GettingStarted, UsingAnnotationsInsteadofDeploymentDescriptor. **Working with Databases:** WhatIsJDBC? JDBCArchitecture, AccessingDatabase, TheServletGUI and DatabaseExample.	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	PPT, Google meets.

USIT506 **ENTERPRISE JAVA** UNIT-2	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application. **COOKIES:** KindsofCookies, WhereCookiesAreUsed? CreatingCookiesUsingServlet, DynamicallyChangingtheColorsofAPage **SESSION:** WhatAreSessions? LifecycleofHttpSession, SessionTrackingWithServletAPI, AServlet Session Example **Workingwith Files:** UploadingFiles, CreatinganUploadFileApplication, DownloadingFiles, CreatingaDownloadFileApplication. **Workingwith Non-Blocking I/O:** CreatingaNon-BlockingReadApplication, CreatingTheWeb Application, CreatingJavaClass, Creating Servlets, Retrieving The File, Creating index.jsp	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	PPT, Google meets.

USIT506 **ENTERPRISE** **JAVA** UNIT-3	**Introduction To Java ServerPages:** WhyuseJava ServerPages? DisadvantagesOfJSP, JSPv\sServlets, LifeCycleofaJSPPage, HowdoesaJSPfunction? HowdoesJSPexecute? AboutJava ServerPages **Getting Started With Java ServerPages:** Comments, JSPDocument, JSPElements, JSPGUIExample. **Action Elements:** IncludingotherFiles, ForwardingJSPPagetoAnotherPage, PassingParametersforotherActions, LoadingaJavabean. **Implicit Objects, Scopeand ElExpressions:** ImplicitObjects, CharacterQuotingConventions, UnifiedExpressionLanguage[UnifiedEl], ExpressionLanguage. **Java Server Pages Standard Tag Libraries:** WhatiswronginusingJSPScriptletTags? HowJSTLFixesJSPScriptlet'sShortcomings? DisadvantagesOfJSTL, TagLibraries.	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	Black Board, Projector, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: DR.PRIYANKA ROSHAN BRID DEPARTMENT: IT CLASS: TYIT (C)

SEMESTER: V MONTH: JUNE-SEPT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

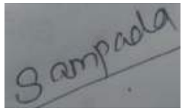
- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit IV	**Introduction To Enterprise Javabeans:** Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateful Session Bean, Example of Stateless Session Bean, Example of Singleton Session Beans.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Working with Message Driven Beans: Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Interceptors: Request And Interceptor, Defining An Interceptor, AroundInvoke Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Naming and Directory Interface: What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java **Unit V**	**Persistence, Object/Relational Mapping And JPA:** What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object/Relational Mapping,	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing JPA Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in Mysql, Creating a Web Application, Adding the Required Library Files, Creating a Javabean Class, Creating Persistence Unit [Persistence.Xml], Creating JSPS, The JPA Application Structure, Running The JPA Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The Application, Components of Hibernate, Architecture of Hibernate, How Hibernate Works?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing Hibernate Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in Mysql, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPS, Running The Hibernate Application.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MRS. KSHITIJA. P. MANE (PALAV)**________DEPARTMENT:________**INFORMATION TECHNOLOGY**________

CLASS:_____**T.Y.B.SC (IT)** SEMESTER:_____**V**______ MONTH:______**JUNE-SEPTEMBER** _ ACADEMIC YEAR: ____________

_____**2022-2023**________

LEARNING OBJECTIVE/S:
The learners will be able to:

- **Understand the background of Red Hat Linux administration as an operating system.**
- **How to work with various commands and their implementation in Linux bash shell system.**
- **To understand basic management tasks, administrative tasks and managing different services with RPM.**
- **Helps to make you configure and install the software, working with the networks and creation of users, groups and permissions in system.**
- **To make you understand the security concept of the system and cryptographic services.**
- **It also make you understand how to configure and to install different servers(FTP, Mail services, DHCP, Samba etc.) and to enable its services and to provide client server architecture working.**
- **Helps to create clusters and provide better understanding of shell scripting.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-04 (USIT505) **Linux System Administration**	**Introduction to Red Hat Enterprise Linux:** Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.	02	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

Unit No -01			John Wiley and Sons	
	Command Line: Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files	04		Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	System Administration Tasks: Performing Job Management Tasks, System and Process Monitoring and Management, Managing Processes with ps, Sending Signals to Processes with the kill Command, Using top to Show Current System Activity, Managing Process Niceness, Scheduling Jobs, Mounting Devices, Working with Links, Creating Backups, Managing Printers, Setting Up System Logging, Setting Up Rsyslog, Common Log Files, Setting Up Logrotate	04		Textbook, Laptop, Projector.
	Managing Software: Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages	02		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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Unit No -02	**Configuring and Managing Storage:** Understanding Partitions and Logical Volumes, Creating Partitions, Creating File Systems, File Systems Overview, Creating File Systems, Changing File System Properties, Checking the File System Integrity, Mounting File Systems Automatically Through fstab, Working with	04	Red Hat Enterprise Linux 6 Administration By	Textbook, Laptop, Projector.

	Logical Volumes, Creating Logical Volumes, Resizing Logical Volumes, Working with Snapshots, Replacing Failing Storage Devices, Creating Swap Space, Working with Encrypted Volumes .		Sander van Vugt , John Wiley and Sons	
	Connecting to the Network: Understanding NetworkManager, Working with Services and Runlevels, Configuring the Network with NetworkManager, Working with system-config-network, NetworkManager Configuration Files, Network Service Scripts, Networking from the Command Line, Troubleshooting Networking, Setting Up IPv6, Configuring SSH, Enabling the SSH Server, Using the SSH Client, Using PuTTY on Windows Machines, Configuring Key-Based SSH Authentication, Using Graphical Applications with SSH, Using SSH Port Forwarding, Configuring VNC Server Access	04		Textbook, Laptop, Projector.
	Working with Users, Groups, and Permissions: Managing Users and Groups, Commands for User Management, Managing Passwords, Modifying and Deleting User Accounts, Configuration Files, Creating Groups, Using Graphical Tools for User, and Group Management, Using External Authentication Sources, the Authentication Process, sssd, nsswitch, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, Working with Access Control Lists, Setting Default Permissions with umask, Working with Attributes	04		Textbook, Laptop, Projector.

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Unit No -03	**Securing Server with iptables:** Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT	04	Red Hat Enterprise Linux 6 Administration By Sander van Vugt John Wiley and Sons	Textbook, Laptop, Projector.
	Setting Up Cryptographic Services: Introducing SSL, Proof of Authenticity: the Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files	04		Textbook, Laptop, Projector.
	Configuring Server for File Sharing: What is NFS? Advantages and Disadvantages of NFS, Configuring NFS4, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Automount, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services.	04		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

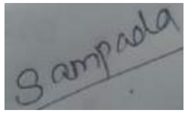
Unit No -04	**Configuring DNS and DHCP:** Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server	04	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	Textbook, Laptop, Projector.

			John Wiley and Sons	
	Setting Up a Mail Server: Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mutt, Basic Configuration, Internet Configuration, Configuring Dovecot for POP and IMAP	03		Textbook, Laptop, Projector.
	Configuring Apache on Red Hat Enterprise Linux: Configuring the Apache Web Server, Creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with .htpasswd, Configuring LDAP Authentication, Setting Up MySQL	05		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Introducing Bash Shell Scripting:** Introduction, Elements of a Good Shell Script, Executing the Script, Working with Variables and Input, Understanding Variables, Variables, Subshells, and Sourcing, Working with Script Arguments, Asking for Input, Using Command Substitution, Substitution Operators, Changing Variable Content with Pattern Matching, Performing Calculations, Using Control Structures, Using if...then...else, Using case, Using while, Using until, Using for, Configuring booting with GRUB.	03	Red Hat Enterprise Linux 6 Administration By Sander van Vugt John Wiley and Sons	Textbook, Laptop, Projector.

	High-Availability Clustering: High-Availability Clustering, The Workings of High Availability, High-Availability Requirements, Red Hat High-Availability Add-on Software,	05		Textbook, Laptop, Projector.

	Components, Configuring Cluster-Based Services, Setting Up Bonding, Setting Up Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Configuring Additional Cluster Properties, Configuring a Quorum Disk, Setting Up Fencing, Creating Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File Systems			
	Setting Up an Installation Server: Configuring a Network Server as an Installation Server, Setting Up a TFTP and DHCP Server for PXE Boot, Installing the TFTP Server, Configuring DHCP for PXE Boot, Creating the TFTP PXE Server Content, Creating a Kickstart File, Using a Kickstart File to Perform an Automated, Installation, Modifying the Kickstart File with, system-config-kickstart, Making Manual Modifications to the Kickstart File	04		Textbook, Laptop, Projector.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:T.Y.BSC(I.T) DIV-C SEMESTER: **V** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:SOFTWARE PROJECT MANAGEMENT

LEARNING OBJECTIVE/S:
The learners will be able to : Apply project management concepts and techniques to an IT project. Identify issues that could lead to IT project success or failure. Explain project management in terms of the software development process. Describe the responsibilities of IT project managers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Project Management USIT501 Unit-1	**Introduction to Software Project Management:**Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle , Traditional versus Modern Project Management Practices.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation

	Project Evaluation and Programme Management: Introduction, Business Case, Project PortfolioManagement, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.	5		
	An Overview of Project Planning: Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	15		

Software Project Management USIT501 Unit-2	**Selection of an Appropriate Project Approach:** Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Software Effort Estimation: Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottom up Estimating, The Top-down Approach and Parametric Models, Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Capers Jones Estimating Rules of Thumb.	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	10		
Software Project Management USIT501 Unit-3	**Activity Planning:** Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks.	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation

	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm‟s Top 10 Risks and Countermeasures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.	4		
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	11		
Software Project Management USIT501 Unit-4	**Monitoring and Control**: Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	3	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Managing Contracts: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance	2		
	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns	4		

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	9		
Software Project Management USIT501 Unit-5	**Working in Teams:** Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres,Communication Plans, Leadership.	3	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Software Quality : Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.	5		
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closeout Report.	2		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**10**		

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)__CLASS: FYIT SEMESTER: _II MONTH:___FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Numerical solution of 1^{st} and 2^{nd} order differential equations- Taylor series, Euler's simple formula Modified Euler's Method R-K seconds and fourth order. Least square Regression Linear Regression, Polynomial Regression, Multilinear Regression, Nonlinear Regression, General Linear Least Squares Method	12	Numerical Techniques- R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

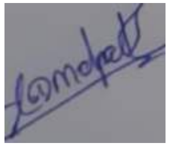
NAME OF THE STAFF: Mrs. ARCHANA MALPATHAK DEPARTMENT: MATHEMATICS CLASS: S.Y.B.Sc. I. T.

SEMESTER: IV MONTH: NOVEMBER – MARCH ACADEMIC YEAR: 2022-2023

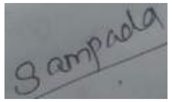
LEARNING OBJECTIVE/S:
The learners will be able to: Mean ,mode,Median,with it's different method ,Quartile Quartile deviation,percentile Decile ,Mean deviatin.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTER ORIENTED STATISTICAL THEORY UNIT – I **The Mean, Median, Mode, and Other Measures of Central Tendency**	**1) The Mean, Median, Mode, and Other Measures of Central Tendency**: Index, or Subscript, Notation, Summation Notation, Averages, or Measures of Central Tendency ,The Arithmetic Mean , The Weighted Arithmetic Mean ,Properties of the Arithmetic Mean ,The Arithmetic Mean Computed from Grouped Data ,The Median ,The Mode, The Empirical Relation Between the Mean, Median, and Mode, The Geometric Mean G, The Harmonic Mean H ,The Relation Between the Arithmetic, Geometric, and Harmonic Means, The Root Mean Square, Quartiles, Deciles, and Percentiles, Software and Measures of Central Tendency. **2)The Standard Deviation and Other Measures of Dispersion**: Dispersion, or Variation, The Range, The Mean Deviation, The Semi Interquartile Range, The 10–90 Percentile Range, The Standard Deviation, The Variance, Short Methods for Computing the Standard Deviation, Properties of the Standard Deviation, Charlie's Check, Sheppard's Correction for Variance, Empirical Relations Between Measures of Dispersion, Absolute and Relative Dispersion; Coefficient of Variation, Standardized Variable; Standard Scores, Software and Measures of Dispersion. **Introduction to R:** Basic syntax, data types, variables, operators, control statements, R-functions, R –Vectors, R – lists, R Arrays.	6+6=12	FUNDAMENTAL. OF MATHEMATICAL STATISTICS S.C. GUPTA and V.K. KAPOOR	Black Board,chalk, online teaching method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande DEPARTMENT: Computer Science

CLASS: T.Y.I.T SEMESTER: VI

MONTH: Dec - April ACADEMIC YEAR: 2022-23

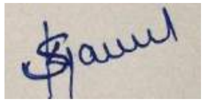
LEARNING OBJECTIVE/S:
The learners will be able to :

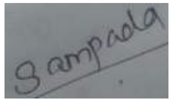
Student will able to understand the importance of software quality.
Aspects that the related to software quality.
Stakeholders and their relationship.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCSIT601 Software Quality Assurance UNIT - I	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	6	Software Testing and Continuous Quality Improvement Software Testing: Principles, Techniques and Tools	PPT
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture,	6		PPT

	Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life Cycle, Software Quality Management, Why Software Has Defects? Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak DEPARTMENT: Mathematics. CLASS: SYIT SEMESTER. -: IV MONTH: November- March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : _Moments,central moment skewness,kurtosis charlichecks,sheppard's ,probability,venn diagram, small sampling .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COST UNIT- II Moments skewness and kurtosis and Sampling Theory	1)Moments,moments for Grouped data,computation of moments for grouped data,charlie'sCheck and Sheppard's correction,skewness ,kurtosis,population Moments,Skewness	06	Techmax Higher Engineering of Maths	Blackboard ,chalk,,Calculator
	2)Elementary probablity Theory- Def of probability,conditional probablity,Independent and dependent event,Mutually Exclusive events,probablity distribution,Mathematical Expectation,Relation between population,Striling to n!,veen Diagram, 3) Elementary Sampling Theory :sampling Theory,Random sample,Sampling with and without replacement,Sampling Distribution,sampling distribution of mean,Sampling distribution of difference and sums,Standard Error.	06	Statistics by Gupta Cost by Sheth publication	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF Archana Malpathak DEPARTMENT: Mathematics_CLASS: SYIT_

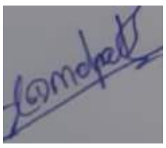
SEMESTER:_I MONTH: November To march

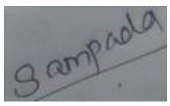
ACADEMIC Year 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to ***:***

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
COST Unit. -IV Small Sampling Theory	Small sample,Student t-distribution,confidence interval,Test of Hypothesis and Significance,The Chi-Square Distribution,Confidence interval by sigma,Degree of freedom,The F-Distribution The chi squre test :Observed snd therotical Frequencies,Defination of chi squre,Significance Tests,Goodness of fit ,Contigency tables,Yate's Correction,simple formula for chi squre	12	Tech Max Higher Engineering of Mathematics Sheth publication Statistics byGupta	Blackboard, chalk, Calculatoonline teaching methodr.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______________


SIGNATURE OF THE STAFF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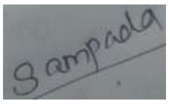
TEACHINGPLAN(UNITPLAN)

NAMEOFTHESTAFF:ArchanaMalpathak DEPARTMENT:Mathematics CLASS: SYIT SEMESTER:-IVMONTH: NOV To March ACADEMICYEAR:_2022 -2023

LEARNINGOBJECTIVE/S:
Thelearnerswillbeableto:____Curvefitting,Leastsquaremethodforlinearandnon-linear,RegressionoflineRegressioncoefficient,correlationcoefficientsamplingtheoryofregression,StandardError.

PAPER, UNIT,TITLE	SUBTOPICS	NOOF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
COST Unit-IV Curve Fittingand Correlation Theory.	Curvefitting,Freehandmethodofcurvefitting,Equationoflinebyleastsquaremethod,Leastsqureline,NonlinearRelationships,TheLeastSquare Parabola,Regression,Correlation Theory-Correlation and regression,Linear correlation,Measure of Correlation,TheLeastSquareRegressionlines,Standard Error,Explain Dandun explained variations Short computational formula,samplingtheory of regression.	12	Techmax Higher Engineeringof Mathematics StatisticsbyGupta	Black board. chalk, Calculator online method

SIGNATUREOFTHESTAFF



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TEACHING PLAN (UNIT PLAN)-CORE JAVA

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: SYIT (B)

SEMESTER: IV MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Acquire knowledge of programming language java.
- Understand data types, control flow statements, iterations and classes.
- Gain proficiency in inheritance and packages.
- Understand enumeration, arrays, exceptions and byte stream.
- Acquire knowledge of event handling and layouts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT401, Core Java, Unit I	**Introduction:** History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit,Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler and Interpreter, java programs, java applications, main (), public, static, void, string [] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	06	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, operator, logical operator, bitwise	06	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	operator, conditional operator assignment operators, increment and decrement operator, relational operators			
USIT401, Core Java, Unit II	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading,Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit III	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords.	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces, What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	05	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit IV	**Enumerations,Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit V	**Event Handling:** Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	07	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout.	02	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

Sampada

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Gayatree Karnik DEPARTMENT: IT CLASS: SYIT A SEMESTER: IV
MONTH: December to March ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVE/S:
The learners will be able to:

To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. To be capable of managing complex IT projects with consideration of the human, financial and environmental factors. To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Engineering USIT404 Unit - 1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models. Waterfall Model. Prototyping. Iterative	2 2 2	Ian Somerville Roger Pressman	Chalk, Blackboard

	Development. Rational Unified Process. The RAD Model Time boxing Model. Agile software development: Agile methods. Plan-driven and agile development, Extreme programming, Agile project management methods.	2		
Software Engineering USIT404 Unit - 5	**Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change. The CMMI Process Improvement Framework. Service Oriented Software Engineering: Services as reusable components, Service Engineering. Software Development with Services. Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse. Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service.	2 2 2 2	Ian Somerville Roger Pressman	Chalk, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT: BSC-IT CLASS: SYIT B SEMESTER: IV

MONTH: December to March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to:

To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. To be capable of managing complex IT projects with consideration of the human, financial and environmental factors. To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Engineering USIT404 Unit - 1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models. · Waterfall Model. · Prototyping. · Iterative Development. · Rational Unified Process. · The RAD	3 4 3	Ian Somerville Roger Pressman	Chalk, Blackboard

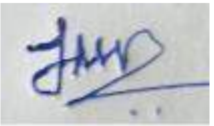
	Model · Time boxing Model. Agile software development: Agile methods. Plan-driven and agile development, Extreme programming, Agile project management methods.	2		
Software Engineering USIT404 Unit - 2	**Socio-technical system:** Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering. Components of system such as organization, people and computers, Dealing Legacy Systems. Critical system: Types of critical system. A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems. Requirements Engineering Processes: Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

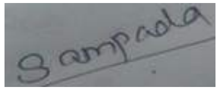
Software Engineering USIT404 Unit - 3	**Architectural Design:** Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures. User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation. Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management. Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics.	2 3 2 2 3	Ian Somerville Roger Pressman	Chalk, Blackboard

Software Engineering USIT404 Unit - 4	**Verification and Validation:** Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods. Software Testing: System Testing, Component Testing, Test Case Design, Test Automation. Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics **Software Cost Estimation:** Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing.	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

Software Engineering USIT404 Unit - 5	**Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change. The CMMI Process Improvement Framework. Service Oriented Software Engineering: Services as reusable components, Service Engineering. Software Development with Services. Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse. Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service.	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(IT) DIV:A SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand programming language and tools to develop computer programs and systems that are effective solutions to problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper:USIT401, unit:2, Title:Core Java	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	5	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
Paper:USIT401, unit:3, Title:Core Java	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces,	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

Paper:USIT401, unit:4, Title:Core Java	**Enumerations,Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

Rekha

Sampada

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT:IT

CLASS: SY BSc IT DIV-A(CJ) SEMESTER:SEM-4 MONTH:DEC-MAR ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

To learn why Java is useful for the design of desktop and web applications.
To learn how to implement object-oriented designs with Java.
To identify Java language components and how they work together in applications.
To design and program stand-alone Java applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CORE JAVA PAPER-1 Unit 1	**Introduction:**History, architecture and its components,Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit,	2	Core Java 8 for Beginners BY Vaishali Shah, Sharnam Shah	BLACK BOARD AND CHALK
	Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler And Interpreter, java programs, java applications,	2		
	main(), public, static, void, string[] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	2		
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operator	4		

Unit 5	Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator,			
	bitwise operator, conditional operator.	2		
	Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	3	Core Java 8 for Beginners BY Vaishali Shah, Sharnam Shah	BLACK BOARD AND CHALK
	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas	3		
	.Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	3		
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: SYIT SEMESTER: I**V** MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To provide experience to integrate hardware and software for microcontroller applications systems.

To acquire knowledge about microcontrollers embedded processors and their applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Embedded System Unit 1	**Introduction:** Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Core of embedded systems: microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Characteristics and quality attributes of embedded systems: Characteristics, operational and non-operational quality attributes.	3	Introduction to embedded systems Shibu K V	Projector, Laptop, Black board & Chalk

			Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	
Paper-02 Embedded System Unit 2	**Embedded Systems – Application and Domain Specific:** Application specific – washing machine, domain specific -automotive.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02	**The 8051 Microcontrollers:** Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

Embedded System Unit 3			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Embedded System Unit 4	**Designing Embedded System with 8051 Microcontroller:** Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Embedded System Unit 5	**Real Time Operating System (RTOS):** Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

	Design and Development: Embedded system development Environment – IDE, types of file generated on cross compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr.Hemant Wani DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: SYIT Div:B SEMESTER: IV MONTH: DEC-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: To provide a understanding of software engineering, its basic concepts and functioning. Develop and master understanding of various models used by software industries for various purposes. Also conceptual learning of various aspects of it such as cost estimation techniques, project management, quality assurance etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT404, Software Engineering Unit-I	Introduction: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements.	02		Blackboard, Chalk
	Software Processes: Process and Project, Component Software Processes. Software Development Process Models. • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model.	04		Blackboard, Chalk
	Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	03		Blackboard, Chalk

USIT404, Software Engineering Unit-II	Socio-technical system:Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Critical system: Types of critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems.	03		Blackboard, Chalk
	Requirements Engineering Processes: Feasibility study, Requirementselicitation and analysis, Requirements Validations, Requirements Management.	03		Blackboard, Chalk
	System Models: Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods	03		Blackboard, Chalk
USIT404, Software Engineering Unit-III	Architectural Design: Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata	Blackboard, Chalk
	User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation	03		Blackboard, Chalk Blackboard, Chalk
	Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management.	03		
	Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control,	03		Blackboard, Chalk

	Software Measurement and Metrics			

			Mcgraw-hill Seventh edition	
USIT404, Software Engineering Unit-IV	Verification and Validation: Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods.	04	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Software Testing: System Testing, Component Testing, Test Case Design, Test Automation. Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics	04		Blackboard, Chalk
	Software Cost Estimation:Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing	04		Blackboard, Chalk
USIT404, Software Engineering Unit-V	Process Improvement: Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework.	03	Software Engineering, Ian Somerville Pearson Education. Ninth	Blackboard, Chalk

	Service Oriented Software Engineering: Services as reusable components, Service Engineering, Software Development with Services.	03	edition, Software Engineering Pankaj Jalote Narosa Publication ,	Blackboard, Chalk
	Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse.	03		Blackboard, Chalk

	Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service	03	Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: S. Y. B. Sc. IT –B SEMESTER: IV MONTH: November-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various transformations
b. Create various objects and applications using graphics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-V Computer Graphics and Applications Unit -II	**Two-Dimensional Transformations:** Transformations and Matrices, Homogeneous Coordinates and Matrix Representation of-Translations, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, The Window-to-Viewport Transformations.	7	Computer Graphics by Rajesh Maurya	Black Board
	Three-Dimensional Transformations: 3D- Scaling, Shearing, Rotation, Reflection, Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Vanishing Points, the Perspective Geometry, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	5		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: S. Y. B. Sc. I. T –B SEMESTER: IV MONTH: November-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. Work with various transformations

b. Create various objects and applications using graphics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-V Computer Graphics and Applications Unit -V	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	3	Computer Graphics by Rajesh Maurya	PowerPoint presentation
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering.	9	Image Processing by Dhananjay	Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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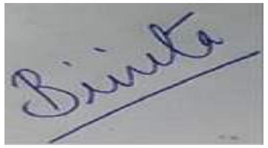

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: SY BSc IT SEMESTER:IV MONTH: JAN-MAR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	4	Introduction to embedded systems by Shibu K V	Black Board & Chalk

PAPER 2 ES UNIT 1	Microprocessors and microcontrollers ,RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS.	3		
	Sensors and actuators, communication interface, embedded firmware, other system components.	3		

	Characteristics, operational and non-operational quality attributes.	2		
UNIT 2	Application specific – washing machine, domain specific - automotive.	3	Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	Memory map, i/o map, interrupt map, processor family, external peripherals	3		
	memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory .	3		
	Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	3		
UNIT 3	Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware	4	Programming Embedded Systems in C C++ by Michael Barr	POWER POINT PRESENTATION/ Black Board & Chalk
	Input/output pins, Ports, and Circuits, External Memory.	4		
	Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	4		
UNIT 4	Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	https://www.tutorialspoint.com/embedded_systems Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	structure of embedded program, infinite loop	4		

	compiling, linking and debugging	4		
UNIT 5	Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS.	4	https://www.tutorialspoint.com/embedded_systems.	POWER POINT PRESENTATION/ Black Board & Chalk
	Embedded system development Environment – IDE, types of file generated on cross compilation, disassembler/ de-compiler,	4		
	simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS
CLASS: SYBSc(IT) DIV:C SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to : Understand programming language and tools to develop computer programs and systems that are effective solutions to problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Core Java (USIT401) Unit I	Introduction: History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit, Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler and Interpreter, java programs, java applications, main (), public, static, void, string [] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	05	Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Google Jam board, Slides, Docs
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator, bitwise operator, conditional operator	03		

Paper:USIT401, unit:2, Title:Core Java	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	3	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	5	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
Paper:USIT401, unit:3, Title:Core Java	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces,	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.

	What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
Paper:USIT401, unit:4, Title:Core Java	Enumerations,Arrays: Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.		Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Online mode Google meet Google slides.
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.			
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause			
	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file			

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Paper:USIT401, unit:5, Title:Core Java	Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	02	Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Online mode Google meet Google slides.
	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	03		
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **PRANALI DAYANAND THAKARE** DEPARTMENT: **IT**

CLASS: **S.Y.BSc(IT)-C** SEMESTER:**IV** MONTH: **JAN-MAR** ACADEMICYEAR: **2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 2 ES UNIT 1	Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	4	Introduction to embedded systems by Shibu K V	Black Board & Chalk
	Microprocessors and microcontrollers ,RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS.	3		
	Sensors and actuators, communication interface, embedded firmware, other system components.	3		

	Characteristics, operational and non-operational quality attributes.	2		
UNIT 2	Application specific – washing machine, domain specific - automotive.	3	Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	Memory map, i/o map, interrupt map, processor family, external peripherals	3		
	memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory .	3		
	Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **SYBSCIT** SEMESTER:**IV**

MONTH: **NOV-MARCH** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

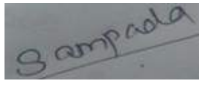
- Be able to demonstrate an understanding of advanced knowledge of the practice of software engineering, from vision to analysis, design, validation and deployment.
- Be able to tackle complex engineering problems and tasks, using contemporary engineering principles, methodologies and tools.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT404 Software Engineering UNIT-1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc	03	Software Engineering, edition, Ian Somerville Pearson Education. Ninth	power point, Black Board
	Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements.	03		
	Software Processes: Process and Project, Component Software Processes.	02		
	Software Development Process Models. • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model	02		

	Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	02		
US404 Software Engineering UNIT-2	**Verification and Validation**: Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods.	03	Software Engineering, edition, Ian Somerville Pearson Education. Ninth	power point, Black Board
	Software Testing: System Testing, Component Testing, Test Case Design, Test Automation	03		
	Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics	03		
	Software Cost Estimation:Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___**MRS. KSHITIJA. A. PALAV (MANE))**_______DEPARTMENT: ______**INFORMATION TECHNOLOGY**____________________CLASS: ____**SY.B S C(IT)-C**______________ SEMESTER: ____**IV**__________ MONTH: ______**NOVEMBER-MARCH**_________ ACADEMIC YEAR: _____**2022-2023**________

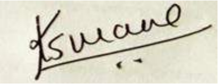
LEARNING OBJECTIVE/S:
The learners will be able to :

Understand the concept of transformations and its types in 2D and 3D in computer graphics and how those can be implemented in variation of applications including Animation. Understanding the representation of matrices, projection in CG and its usage. To implement concepts, creation and how it works with different types of animation. To make understand what is image , how it is created and how it is used in varieties of processing, To make understand the concept of image enhancement, compression, filtering and histogram of image to study subjective improvisation of image in applications to reduce the noise

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-05 (USIT405) **Computer Graphics and Animation** **Unit No -02**	**Two-Dimensional Transformations:** Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook

	Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations.			
	Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations,. Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	06	Computer Graphics by R.K Maurya.	Projector, Blackboard, PPTs, Textbook
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement,	06	Digital Image Processing by Dhananjay.	Projector, Blackboard, PPTs, Textbook

	contrast stretching, Histogram Equalization, smoothing and median Filtering.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			



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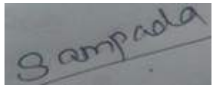

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___**MRS. KSHITIJA. A. PALAV (MANE))**________DEPARTMENT: _______**INFORMATION TECHNOLOGY**_____________________CLASS: ____**SY.B S C(IT)-C**_______________ SEMESTER: ____**IV**___________ MONTH: ______**NOVEMBER-MARCH**_________ ACADEMIC YEAR: _____**2022-2023**________

LEARNING OBJECTIVE/S:
The learners will be able to :

Understand the concept of transformations and its types in 2D and 3D in computer graphics and how those can be implemented in variation of applications including Animation. Understanding the representation of matrices, projection in CG and its usage. To implement concepts, creation and how it works with different types of animation. To make understand what is image , how it is created and how it is used in varieties of processing, To make understand the concept of image enhancement, compression, filtering and histogram of image to study subjective improvisation of image in applications to reduce the noise

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-05 (USIT405) **Computer Graphics and Animation** **Unit No -02**	**Two-Dimensional Transformations:** Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook

	Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations.			
	Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations,. Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	06	Computer Graphics by R.K Maurya.	Projector, Blackboard, PPTs, Textbook
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement,	06	Digital Image Processing by Dhananjay.	Projector, Blackboard, PPTs, Textbook

	contrast stretching, Histogram Equalization, smoothing and median Filtering.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.PRANALI DAYANAND THAKARE** DEPARTMENT: **IT** CLASS: **TYBSCIT**

SEMESTER:**VI** MONTH: **NOV-MARCH** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

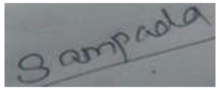
Understanding the customers priority for **quality assurance** while developing ...
that **will** be created by the organization, The scope of **Software** Testing applies to ... improvements of the processes through **learning** & innovation
Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-1	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture, Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

	Cycle, Software Quality Management, Why Software Has Defects?Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management..			
USIT601 Software Quality Assurance UNIT-3	**Unit Testing: Boundary Value Testing:** Normal Boundary ValueTesting, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing, **Equivalence Class Testing:** Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing:** Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations,**Data Flow Testing:** Define/Use Testing, Slice-Based Testing,Program Slicing Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
USIT601 Software Quality Assurance UNIT-5	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.	04	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing,Regression Testing, Error Handling Testing, Manual Support Testing,Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing,Parallel Testing, Execution Testing,	08	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point
	Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage,Object Oriented Application Testing, Testing of Internal Controls COTS Testing, Client Server Testing, Web Application Testing,Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT   DEPARTMENT: IT   CLASS: TYIT (C)

SEMESTER: VI   MONTH: DEC-MARCH   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business Intelligence Unit I	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint
	Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit II	**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	05	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data preparation: Data validation, Data transformation, Data reduction	03	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit V	**Knowledge Management:** Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint
	Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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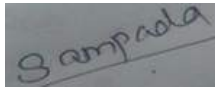

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof Gayatree Karnik DEPARTMENT: Information technology CLASS: TYIT (A)

SEMESTER: VI MONTH: November to March ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand Legal aspects of Information technology
- Conceptual arrangements of Laws and amendments
- Pass on the legal information about how one should use technology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Unit 2	Contracts in the Infotech World: Contracts in the Infotech World, Click-Wrap and Shrink-Wrap Contract: Status under the Indian Contract Act, 1872, Contract Formation Under the Indian Contract Act, 1872, Contract Formation on the Internet, Terms and Conditions of Contracts. Jurisdiction in the Cyber World: Questioning the Jurisdiction and Validity of the Present Law of Jurisdiction, Civil Law of Jurisdiction in India, Cause of Action, Jurisdiction and the Information Technology Act,2000, Foreign Judgements in India, Place of Cause of Action in	12	Cyber Law Simplified – Vivek Sood	Computer and Powerpoint,Chalk & Board

	Contractual and IPR Disputes, Exclusion Clauses in			

	Contracts, Abuse of Exclusion Clauses, Objection of Lack of Jurisdiction, Misuse of the Law of Jurisdiction, Legal Principles on Jurisdiction in the United State of America, Jurisdiction Disputes w.r.t. the Internet in the United State of America.			
UNIT 3 Unit 4	Battling Cyber Squatters and Copyright Protection in the Cyber World: Concept of Domain Name and Reply to Cyber Squatters, Meta- Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.	12	Cyber Law Simplified – Vivek Sood	Chalk & Board

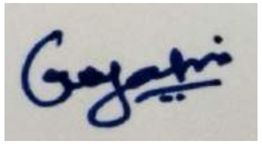
	E-Commerce Taxation: Real Problems in the Virtual World: A Tug of War on the Concept of 'Permanent Establishment', Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The	12	Cyber Law Simplified – Vivek Sood	Chalk & Board

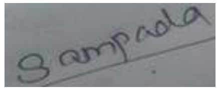
Unit 5	Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance. Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E- Governance in India: A Warning to Babudom!			

	The Indian Evidence Act of 1872 v. Information Technology Act, 2000: Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and Reserve Bank of India Act, 1934. Protection of Cyber Consumers in India: Are Cyber Consumers 12 Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services	12	Cyber Law Simplified – Vivek Sood	Chalk & Board

	Provided to a Consumer in India. Amendments in Indian IT Act 2000			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**Ms. Prajakta Hatkar** DEPARTMENT: **IT** CLASS: **TYBSc IT** SEMESTER: **VI**

MONTH: **NOV-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- ✓ Understanding the customers priority for quality assurance while developing that will be created by the organization
- ✓ The scope of Software Testing applies to improvements of the processes through learning & innovation
- ✓ Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-2	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing,Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench,Important Features of Testing Process, Misconceptions About Testing,Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation
	Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy,	06	Software Testing:	Power Point Presentation

	Developing Testing Methodologies (Test Plan), Testing Process,			

	Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing		Principles, Techniques and Tools M. G. Limaye	
USIT601 Software Quality Assurance UNIT-4	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation,Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation
	V-test Model: Introduction, V-model for software, Testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding,VV Model, Critical Roles and Responsibilities.	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Security In Computing** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To provide security against users, software, devices, operating systems, networks, cloud and data.

The learners will be able to :

- To understand the concept of Information Security.
- To know how to use Security Methodology, Strategy and Tactics.
- To analyze Risk by identifying possible Threat, Types of Attacks.
- To learn about Secure Design Principles like the CIA Triad and Other Models, Defense Models.
- To know Intrusion Detection and Prevention Systems.
- To learn Voice over IP (VoIP) and PBX Security, TEM (Telecom Expense Management).
- To understand Operating System Security Models, International Standards for Operating System Security.
- To have information related to Virtual Machines and Cloud Computing.
- To study Secure Application Design in Web Application Security, Client Application Security, Remote Administration Security.
- To know how to implement Physical Security by Choosing Site Location for Security, Securing Assets - Locks and Entry Controls, Physical Intrusion Detection.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USIT602	**Information Security Overview**: The Importance of Information Protection, The Evolution of Information Security, Justifying Security	12	1. The Complete Reference: Information Security	Black Board, Projector, Google Meet PPT

Security In Computing UNIT-1	Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls. **Risk Analysis**: Threat Definition, Types of Attacks, Risk Analysis. **Secure Design Principles**: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.		2. Essential Cybersecurit y Science 3. Principles of Computer Security: CompTIA Security+ and Beyond	
USIT603 **Security In Computing** UNIT-4	**Intrusion Detection and Prevention Systems**: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM). **Voice over IP (VoIP) and PBX Security**: Background, VoIP Components,VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management. **Operating System Security Models**: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	12	1. The Complete Reference: Information Security 2. Essential Cybersecurit y Science 3. Principles of Computer Security: CompTIA Security+ and Beyond	Black Board, Projector, Google Meet PPT

USIT603 **Security In Computing** UNIT-5	**Virtual Machines and Cloud Computing**: Virtual Machines, Cloud Computing. **Secure Application Design**: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security.	12	1. The Complete Reference: Information Security 2. Essential Cybersecurity Science	Black Board, Projector, Google Meet PPT
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.		3. Principles of Computer Security: CompTIA Security+ and Beyond	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: Ms. SONALI DATTATRAY SALVANIKAR DEPARTMENT: IT CLASS: TYIT (B)

SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint

Intelligence Unit I	**Decision support systems:** Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:GAURI KETAN THAKUR DEPARTMENT:-IT

CLASS: TY BSc IT DIV-B(BI) SEMESTER:SEM-6 MONTH:DEC-MAR ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

- Introduce the concepts and components of Business Intelligence (BI)
- Evaluate the technologies that make up BI (data warehousing, OLAP)
- Define how BI will help an organization and whether it will help yours
- Identify the technological architecture that makes up BI systems
- Plan the implementation of a BI system

PAPER, UNIT, TITLE		SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Intelligence Unit 1		**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	3	Business Intelligence : Data Mining and Optimization for Decision Making	BLACK BOARD AND CHALK
		Data mining: Definition of data mining, Representation of input data ,Data mining process, Analysis methodologies	5		

		Data preparation: Data validation, Data transformation, Data reduction	4		
Unit 5		**Knowledge Management: In**troduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	6	Decision support and Business Intelligence Systems	BLACK BOARD AND CHALK POWER POINT PRESENTATION
		Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Gthakur

Sampada

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: TYIT SEMESTER: VI MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop the understanding of relationship between commerce and cyberspace

To enable learner to understand, explore, and acquire a critical understanding Cyber Law.

To give learners in depth knowledge of Information Technology Act and legal frame work of Right to Privacy, Data Security and Data Protection

To make learner conversant with the social and intellectual property issues emerging from ‘Cyberspace

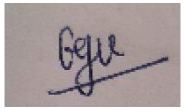
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-07 Cyber Law Unit 3	**Battling Cyber Squatters and Copyright Protection in the Cyber World:** Concept of Domain Name and Reply to Cyber Squatters, Meta-Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign Works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

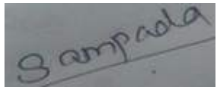
	Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.			
Paper-07 Cyber Law Unit 4	**E-Commerce Taxation:** Real Problems in the Virtual World: A Tug of War on the Concept of „Permanent Establishment", Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

	Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E-Governance in India: A Warning to Babudom!	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
Paper-07 Cyber Law Unit 5	**The Indian Evidence Act of 1872 v. Information Technology Act, 2000:** Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

	Reserve Bank of India Act, 1934.			
	Protection of Cyber Consumers in India: Are Cyber Consumers Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services Provided to a Consumer in India. Amendments in Indian IT Act 2000	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -I	**Information Security Overview** : The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls.	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Risk Analysis: Threat Definition, Types of Attacks, Risk Analysis.	4		PowerPoint presentation / Black Board
	Secure Design Principles: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.	4		PowerPoint presentation / Black Board

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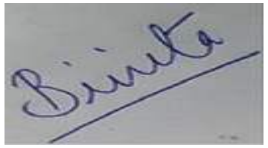
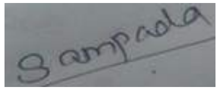
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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SIGNATURE OF THE H.O.D.

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -II	**Authentication and Authorization**: Authentication, Authorization	3	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Encryption: A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure.	5		PowerPoint presentation / Black Board
	Storage Security: Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices.	2		PowerPoint presentation / Black Board
	Database Security: General Database Security Concepts, Understanding Database Security Layers, Understanding Database-Level Security, Using Application Security, Database Backup and Recovery, Keeping Your Servers Up to Date, Database Auditing and Monitoring.	2		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -III	**Secure Network Design**: Introduction to Secure Network Design, Performance, Availability, Security.	3	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Network Device Security: Switch and Router Basics, Network Hardening.	3		PowerPoint presentation / Black Board
	Firewalls: Overview, The Evolution of Firewalls, Core Firewall Functions, Additional Firewall Capabilities, Firewall Design.	3		PowerPoint presentation / Black Board
	Wireless Network Security: Radio Frequency Security Basics, Data-Link Layer Wireless Security Features, Flaws, and Threats, Wireless Vulnerabilities and Mitigations, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways.	3		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -IV	**Intrusion Detection and Prevention Systems**: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM).	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Voice over IP (VoIP) and PBX Security: Background, VoIP Components, VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management.	4		PowerPoint presentation / Black Board
	Operating System Security Models: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	4		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -V	**Virtual Machines and Cloud Computing**: Virtual Machines, Cloud Computing.	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Secure Application Design: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security.	4		PowerPoint presentation / Black Board
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.	4		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: DR.BRIJESH YATINDRA JOSHI DEPARTMENT: IT CLASS: TYIT (C)

SEMESTER: VI MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

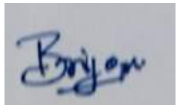
- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

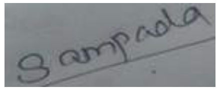
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business Intelligence Unit I	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint
	Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit II	**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	05	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data preparation: Data validation, Data transformation, Data reduction	03	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit V	**Knowledge Management:** Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint
	Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: INFORMATION TECHNOLOGY CLASS: TYIT-C

SEMESTER: VI MONTH: JANUARY-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:
The learners will be able to:

- Understand the concepts of information security, Risk Analysis.
- Understand various security areas such as storage, database, Physical, application, operating system.
- Be familiar about the basic designing of secure network.
- Detect intrusion and how to prevent it, introduction to virtual machines and cloud computing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT602, Unit 1, Security in Computing	Information Security Overview: The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Risk Analysis: Threat Definition, Types of Attacks, Risk Analysis	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Secure Design Principles: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.	04	The Complete Reference: Information Security by Mark	PowerPoint Presentation

			Rhodes Ousley	

USIT602, Unit 2, Security in Computing	Authentication and Authorization: Authentication, Authorization	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Encryption: A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Storage Security: Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Database Security: General Database Security Concepts, Understanding Database Security Layers, Understanding DatabaseLevel Security, Using Application Security, Database Backup and Recovery, Keeping Your Servers Up to Date, Database Auditing and Monitoring.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

USIT602, Unit 3, Security in Computing	Secure Network Design: Introduction to Secure Network Design, Performance, Availability, Security.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Network Device Security: Switch and Router Basics, Network Hardening.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

	Firewalls: Overview, The Evolution of Firewalls, Core Firewall 12 38 Functions, Additional Firewall Capabilities, Firewall Design.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Wireless Network Security: Radio Frequency Security Basics, DataLink Layer Wireless Security Features, Flaws, and Threats, Wireless Vulnerabilities and Mitigations, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Intrusion Detection and Prevention Systems: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM).	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

USIT602, Unit 4, Security in Computing	Voice over IP (VoIP) and PBX Security: Background, VoIP Components,VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Operating System Security Models: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
USIT602, Unit 5, Security in Computing	Virtual Machines and Cloud Computing: Virtual Machines, Cloud Computing.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

	Secure Application Design: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Asst. Prof. Hemant Wani DEPARTMENT: Information Technology

CLASS: TYIT SEMESTER: VI MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop the understanding of relationship between commerce and cyberspace

To enable learner to understand, explore, and acquire a critical understanding Cyber Law.

To give learners in depth knowledge of Information Technology Act and legal frame work of Right to Privacy, Data Security and Data Protection

To make learner conversant with the social and intellectual property issues emerging from 'Cyberspace

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-07 Cyber Law Unit 1	**Power of Arrest Without Warrant Under the IT Act, 2000:** A Critique, Crimes of this Millennium, Section 80 of the IT Act, 2000 – A Weapon or a Farce? Forgetting the Line Between Cognizable and Non Cognizable Offences, Necessity of Arrest without Warrant from Any Place, Public or Otherwise, Check and Balances Against Arbitrary Arrests, Arrest for "About to Commit" an Offence Under the IT Act: A Tribute to Draco, Arrest, But NO Punishment! **Cyber Crime and Criminal Justice:** Penalties, Adjudication and Appeals Under the IT Act, 2000: Concept of "Cyber Crime " and the IT Act , 2000, Hacking, Teenage Web Vandals, Cyber Fraud and Cyber Cheating, Virus on the Internet, Defamation, Harassment and Email Abuse, Cyber Pornography, Other IT Act Offences, Monetary Penalties, Adjudication and Appeals Under IT Act , 2000, Network Service Providers, Jurisdiction and Cyber Crime, Nature of Cyber Criminality, Strategies to Tackle Cyber Crime and Trends, Criminal Justice in India and Implications on Cyber Crime	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 2	**Contracts in the InfoTech World:** Contracts in the InfoTech World, Click-Wrap and Shrink-Wrap Contract: Status under the Indian Contract Act, 1872, Contract Formation Under the Indian Contract Act, 1872, Contract Formation on the Internet, Terms and Conditions of Contracts. **Jurisdiction in the Cyber World:** Questioning the Jurisdiction and Validity of the Present Law of Jurisdiction, Civil Law of Jurisdiction in India, Cause of Action, Jurisdiction and the Information Technology Act,2000, Foreign Judgments in India, Place of Cause of Action in Contractual and IPR Disputes, Exclusion Clauses in Contracts, Abuse of Exclusion Clauses, Objection of Lack of Jurisdiction, Misuse of the Law of Jurisdiction, Legal Principles on Jurisdiction in the United State of America, Jurisdiction Disputes w.r.t. the Internet in the United State of America	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
Paper-07 Cyber Law Unit 3	**Battling Cyber Squatters and Copyright Protection in the Cyber World:** Concept of Domain Name and Reply to Cyber Squatters, Meta-Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign Works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 4	**E-Commerce Taxation:** Real Problems in the Virtual World: A Tug of War on the Concept of „Permanent Establishment", Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
	Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E-Governance in India: A Warning to Babudom!	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 5	**The Indian Evidence Act of 1872 v. Information Technology Act, 2000:** Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and Reserve Bank of India Act, 1934.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
	Protection of Cyber Consumers in India: Are Cyber Consumers Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services Provided to a Consumer in India. Amendments in Indian IT Act 2000	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Sampada

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: IT
CLASS: TYIT-C SEMESTER: IV MONTH: DECEMBER TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand and evaluate efficiency of the Geographic Information System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Principles of Geographic Information Systems (USIT604) Unit I	A Gentle Introduction to GIS The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation. The real world and representations of it: Models and modelling, Maps, Databases, Spatial databases and spatial analysis Geographic Information and Spatial Database Models and Representations of the real-world Geographic Phenomena: Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects Organizing and Managing Spatial Data the Temporal Dimension	6		

Principles of Geographic Information Systems (USIT604) Unit II	Data Management and Processing Systems Hardware and Software Trends Geographic Information Systems: GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI) Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data presentation	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Database management Systems: Reasons for using a DBMS, Alternatives for data management, the relational data model, Querying the relational database. GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality	6		
Principles of Geographic Information Systems (USIT604) Unit III	Spatial Referencing and Positioning Spatial Referencing: Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Data Entry and Preparation Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, obtaining spatial data elsewhere Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, temporal accuracy, Lineage, Completeness, Logical consistency Data Preparation: Data checks and repairs, combining data from multiple sources Point Data Transformation: Interpolating discrete data, Interpolating continuous data	6		
Principles of Geographic Information Systems (USIT604) Unit IV	Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification Overlay functions: Vector overlay operators,Raster overlay operators Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board

	Analysis: Network analysis, interpolation, terrain modelling GIS and Application models:GPS, Open GIS Standards, GIS Applications and Advances Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	6		
Principles of Geographic Information Systems (USIT604) Unit V	Data Visualization GIS and Maps, The Visualization Process Visualization Strategies: Present or explore? The cartographic toolbox: What kind of data do I have? How can I map my data? How to map? How to map qualitative data, how to map quantitative data, How to map the terrain elevation, How to map time series Map Cosmetics, Map Dissemination	12	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: TYBSc(IT) DIV:C SEMESTER: VI MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

The learners will be able to : Understand fundamentals of testing, Level of testing software, verification and validation models and other special tests which helps to enhance knowledge and keep the software uptodate.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper:USIT601, unit:2, Title:SQA	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing, Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench, Important Features of Testing Process, Misconceptions About Testing,	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods, Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy,	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing.	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

Paper:USIT601, unit:3, Title:SQA	**Unit Testing**: Boundary Value Testing: Normal Boundary Value Testing, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing,	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Equivalence Class Testing: Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing**: Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations, **Data Flow Testing:** Define/Use Testing, Slice-Based Testing, Program Slicing Tools.	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
Paper:USIT601, unit:4, Title:SQA	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation, Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	6	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

	V-test Model: Introduction, V-model for software, testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding, VV Model, Critical Roles and Responsibilities.	6	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
Paper:USIT601, unit:5, Title:SQA	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing, Regression Testing, Error Handling Testing, Manual Support Testing, 12 36 Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing, Parallel Testing, Execution Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage, Object Oriented Application Testing, Testing of Internal Controls, COTS Testing, Client Server Testing, Web Application Testing, Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Sampada

SIGNATURE OF THE STAFF | **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. KSHITIJA. A. PALAV (MANE)** DEPARTMENT: **INFORMATION TECHNOLOGY** CLASS: **T.Y.B.SC (IT)-A**

SEMESTER: **VI** MONTH: **DECEMBER-APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Geographical Information System for processing standard geographic data.
- Make you understand where GIS system can be applied. Learning about different applications (example: GPS).
- How geographic data are capture, updated, profiled, stored and represented in the system.
- Enable to understand software and hardware trends, DBMS and varieties of Models.
- To understand how geographic data can be display with help of Maps and to understand the making of Maps.
- Studying about spatial referencing and positioning of data in system.
- To understand different operations and functions on data and to analyze and explore information in the system.
- To provide better visualization of data both in vector and raster manner.

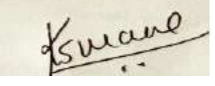
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-04 (USIT604) **Principles of Geographic**	**A Gentle Introduction to GIS** **The nature of GIS:** Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation. **The real world and representations of it:** Models and	04	Principles of Geographic Information Systems- An Introductory	Projector, Blackboard, PPTs, Textbook

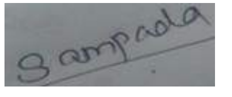
Information Systems **Unit No -01**	modelling, Maps, Databases, Spatial databases and spatial analysis		Text Book By Editors: Otto Huisman and Rolf A. , The International Institute of Geoinformation Science and Earth Observation Introduction to Geographic Information Systems Chang Kang-tsung McGrawHill	
	Geographic Information and Spatial Database Models and Representations of the real world **Geographic Phenomena:** Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	03		
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects	03		
	Organizing and Managing Spatial Data **The Temporal Dimension**	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -02	**Data Management and Processing Systems** **Hardware and Software Trends** **Geographic Information Systems:** GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)	04	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto	Projector, Blackboard,Textbook PPTs.
	Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.	03		

	Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database.	03	Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -03	**Spatial Referencing and Positioning** **Spatial Referencing:** Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	03		
	Data Entry and Preparation **Spatial Data Input:** Direct spatial data capture, Indirect spatial data captiure, Obtaining spatial data elsewhere	02		
	Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, Temporal accuracy, Lineage, Completeness, Logical consistency	02		
	Data Preparation: Data checks and repairs, Combining data from multiple sources	01		
	Point Data Transformation: Interpolating discrete data, Interpolating continuous data	01		

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -04	**Spatial Data Analysis** **Classification of analytical GIS Capabilities** **Retrieval, classification and measurement:** Measurement, Spatial selection queries, Classification	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Overlay functions: Vector overlay operators,Raster overlay operators	01		
	Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	03		
	Analysis: Network analysis, interpolation, terrain modelling	01		
	GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances	02		
	Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -05	**Data Visualization** **GIS and Maps, The Visualization Process** **Visualization Strategies: Present or explore?**	04	Principles of Geographic Information	Projector, Blackboard, Textbook PPTs.

	The cartographic toolbox: What kind of data do I have?, How can I map my data?	03	Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	How to map?: How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series	03		
	Map Cosmetics, Map Dissemination	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			





SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. PRANALI DAYANAND THAKARE** DEPARTMENT: **INFORMATION TECHNOLOGY**

CLASS: **T.Y.B.SC (IT)-B** SEMESTER: **VI** MONTH: **DECEMBER-APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Geographical Information System for processing standard geographic data.
- Make you understand where GIS system can be applied. Learning about different applications (example: GPS).
- How geographic data are capture, updated, profiled, stored and represented in the system.
- Enable to understand software and hardware trends, DBMS and varieties of Models.
- To understand how geographic data can be display with help of Maps and to understand the making of Maps.
- Studying about spatial referencing and positioning of data in system.
- To understand different operations and functions on data and to analyze and explore information in the system.
- To provide better visualization of data both in vector and raster manner.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-04 (USIT604)	**A Gentle Introduction to GIS** **The nature of GIS:** Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation.	04	Principles of Geographic Information Systems- An	Projector, Blackboard, PPTs, Textbook

Principles of Geographic Information	**The real world and representations of it:** Models and modelling, Maps, Databases, Spatial databases and spatial analysis		Introductory Text Book By	

Systems **Unit No -01**	**Geographic Information and Spatial Database** **Models and Representations of the real world** **Geographic Phenomena:** Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	03	Editors: Otto Huisman and Rolf A. , The International Institute of Geoinformation Science and Earth Observation Introduction to Geographic Information Systems Chang Kang-tsung McGrawHill	
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects	03		
	Organizing and Managing Spatial Data **The Temporal Dimension**	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -02	**Data Management and Processing Systems** **Hardware and Software Trends** **Geographic Information Systems:** GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)	04	Principles of Geographic Information Systems- An Introductory Text Book By	Projector, Blackboard,Textbook PPTs.
	Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.	03		

	Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database.	03	Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -03	**Spatial Referencing and Positioning** **Spatial Referencing:** Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	03		
	Data Entry and Preparation **Spatial Data Input:** Direct spatial data capture, Indirect spatial data captiure, Obtaining spatial data elsewhere	02		
	Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, Temporal accuracy, Lineage, Completeness, Logical consistency	02		
	Data Preparation: Data checks and repairs, Combining data from multiple sources	01		

	Point Data Transformation: Interpolating discrete data, Interpolating continuous data	01		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -04	**Spatial Data Analysis** **Classification of analytical GIS Capabilities** **Retrieval, classification and measurement:** Measurement, Spatial selection queries, Classification	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Overlay functions: Vector overlay operators,Raster overlay operators	01		
	Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	03		
	Analysis: Network analysis, interpolation, terrain modelling	01		
	GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances	02		
	Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -05	**Data Visualization** **GIS and Maps, The Visualization Process** **Visualization Strategies: Present or explore?**	04	Principles of Geographic	Projector, Blackboard, Textbook PPTs.

			Information	
	The cartographic toolbox: What kind of data do I have?, How can I map my data?	03	Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	How to map?: How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series	03		
	Map Cosmetics, Map Dissemination	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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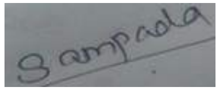

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **TYBSCIT** SEMESTER:**VI**

MONTH: **NOV-MARCH** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understanding the customers priority for **quality assurance** while developing ...
that **will** be created by the organization, The scope of **Software** Testing applies to ... improvements of the processes through **learning** & innovation
Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-1	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture, Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

	Cycle, Software Quality Management, Why Software Has Defects?Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management..			
USIT601 Software Quality Assurance UNIT-2	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing,Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench,Important Features of Testing Process, Misconceptions About Testing,Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy, Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

USIT601	**Unit Testing: Boundary Value Testing:** Normal Boundary ValueTesting, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples,	05	Software Testing:	power point,google meet

Software Quality Assurance UNIT-3	Random Testing, Guidelines for Boundary Value Testing, **Equivalence Class Testing:** Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.		Principles, Techniques and Tools M. G. Limaye	
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing:** Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations,**Data Flow Testing:** Define/Use Testing, Slice-Based Testing,Program Slicing Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
USIT601 Software Quality Assurance UNIT-4	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation,Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

	V-test Model: Introduction, V-model for software, Testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding,VV Model, Critical Roles and Responsibilities.	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point
USIT601 Software Quality Assurance	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich	04	Software Testing: Principles, Techniques	power point

UNIT-5	Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.		and Tools M. G. Limaye	
	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing,Regression Testing, Error Handling Testing, Manual Support Testing,Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing,Parallel Testing, Execution Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage,Object Oriented Application Testing, Testing of Internal Controls COTS Testing, Client Server Testing, Web Application Testing,Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.	08	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)__CLASS: FYIT SEMESTER: _**II** MONTH: ___FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	Gauss Jordan Method, Gauss-Seidel Method, Trapezoidal Rule, Simpson's 1/3 rd and $3/8^{th}$ Rule, Numerical differentiation for Newton's Forward Difference Interpolation and Backward Difference Interpolation	12	Numerical Techniques- R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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Vidhya Dayanand Patil College of Arts.
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: IT
CLASS: FYIT SEMESTER: II MONTH: JANUARY TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessors

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT202: Fundamentals of Micro Processor and Microcontrollers **Unit 1**	**Microprocessor, microcomputers, and Assembly Language:** Microprocessor,Microprocessor Instruction Set and Computer Languages, From Large Computers to Single-Chip Microcontrollers, Applications.	**4**	**Microprocessors Architecture, Programming and Applications with the 8085 by Ramesh Gaonkar.**	**Blackboard and chalk**
	Microprocessor Architecture and Microcomputer System: Microprocessor Architecture and its operation's, Memory, I/O Devices, Microcomputer System, Logic Devices and Interfacing, Microprocessor-Based System Application	**4**		
	8085 Microprocessor Architecture and Memory Interface: Introduction, 8085 Microprocessor unit, 8085-Based Microcomputer, Memory Interfacing,Interfacing the8085 Memory Segment	**4**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF JNaik **SIGNATURE OF THE H.O.D.** Sampada

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: IT

CLASS: FYIT SEMESTER: II MONTH: JANUARY TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To understand the concept of Green Technology.
- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless work.
- To know the concept of Recycling.
- To understand Metrics for Green IT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT205: Green IT **Unit 1**	**Overview to Green IT:** Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Regulating Green IT: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.	**6**		

	Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace			
USIT205: Green IT **Unit 2**	**Minimizing Power Usage:** Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan AND Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Cooling: Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together	**6**		
USIT205: Green IT **Unit 3**	**Greening IT**: Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications	**4**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan AND Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Changing the Way of Work: Old Behaviours,startingTop, Process Reengineering with Green in Mind,Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource.	**4**		

	Going Paperless: Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.	**4**		
USIT205: Green IT **Unit 4**	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mindset, David vs. America Online.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Hardware Considerations: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection	**6**		
USIT205: Green IT **Unit 5**	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND**	**Blackboard and chalk**

	Staying Green: Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations	6	**Green IT by Deepak Shikarpur**	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT
CLASS:FYIT SEMESTER: II MONTH: December to March ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

To understand the concept of Green Technology.

- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless
- work. To know the concept of Recycling.
- To understand Metrics for Green IT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Green IT (USIT205) Unit – I	**Overview to Green IT**: Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power. **Regulating Green IT**: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace.	12	Toby Velte, Anthony Velte, Robert Elsenpeter McGraw Hill	Black board and chalk

Green IT (USIT205) Unit –II	**Minimizing Power Usage**: Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software. **Cooling:** Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk
Green IT (USIT205) Unit –III	**Greening IT:** Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications. Changing the Way of Work: Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource. **Going Paperless:** Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles. 12	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk

Green IT (USIT205) Unit –IV	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mindset, David vs. America Online. **Hardware Considerations**: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk
Green IT (USIT205) Unit –V	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling. **Staying Green**: Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations.	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

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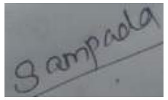

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: F.Y.B.Sc.IT - A SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Microprocessor and Microcontroller Unit 2	**Interfacing of I/O Devices** : Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Introduction to 8085 Assembly Language Programming: The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

	Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program.			
	Introduction to 8085 Instructions: Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Stacks and Sub-Routines: Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Interrupts: The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

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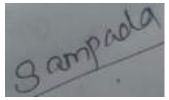
Paper 02 Microprocessor and Microcontroller UNIT-4	**Micro Controllers:** Embedded Systems and general purpose computer systems,history, classifications, applications and purpose of embedded systems.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family,external peripherals, memory – RAM , ROM, types of RAM and ROM, memorytesting, CRC ,Flash memory.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits,External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embeddedsystems Shibu K VTata Mcgraw- Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: Information Technology.

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: Dec To March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

USIT201 Object Oriented Programming	**FUNCTION IN C++**: Introduction ,Function Declaration/Prototyping ,,The Main Function in C++,Recursion ,Call by Reference ,Call by Reference Vs Call by Address , Return by	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

UNIT-II	Reference ,,Inline Function ,Function Overloading ,Function with Default Arguments **CLASS AND OBJECTS IN C++** : Working with Class, Structure in C++ ,Accessing Private Data Passing and Returning Object ,Array of Object ,Friend Function ,Static Class Members ,Constant Member Function **WORKING WITH CONSTRUCTOR AND DESTRUCTOR:** Introduction, Constructor with Parameters, Implicit and Explicit Call to Constructor, Copy Constructor, Dynamic Initialization of Objects, Dynamic Constructor, Destructor **WORKING WITH OPERATOR OVERLOADING:** Introduction, Operator Overloading with Binary Operator Overloading Assignment (=) Operator, Overloading Unary Operators, Overloading Using Friend Function, Rules of Operator Overloading, Type Conversion			

USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor **INPUT-OUTPUT AND MANIPULATORS IN C++:** Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.
USIT201 Object Oriented Programming	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File, File Opening Modes Checking End of File, Random Access in File, Command Line Arguments, Working with Binary Mode Error Handling	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

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UNIT-IV	**TEMPLATE PROGRAMMING:** Introduction , Function Template , Class Template **EXCEPTION HANDLING IN C++ :** Introduction , Basics of Exception Handling , Exception Handling Mechanism , Programming Examples ,Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function			
USIT201 Object Oriented Programming UNIT-V	**INTRODUCTION TO THE STANDARD TEMPLATE LIBRARY** : Introduction , Components of STL , Containers , Algorithms , Iterators ,Application of Container Classes Function Objects **MANIPULATING STRINGS** :Introduction , Creating (string) Objects , Manipulating String Objects , Relational Operations, String Characteristics , Accessing Characters in Strings , Comparing and Swapping **NEW FEATURES OF ANSI C++ STANDARD** : Introduction ,New Data Types , New Operators , Class Implementation , Namespace Scope , Operator Keywords , New Keywords , New Headers	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: FY BSc IT SEMESTER:II MONTH: JAN-MAR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 Mp/Mc	Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	https://www.tutorialspoint.com/embedded_systems Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION /BLACK BOARD &CHALK
	structure of embedded program, infinite loop compiling, linking and debugging	4		
	Embedded system development Environment – IDE, types of file generated on cross compilation, embedded product development life-cycle, trends in embedded industry.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton's Forward Difference Interpolation, Newton's Backward Difference Interpolation	3		
	Lagrange's Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

D. Pawar.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr.Avinash Sonawane DEPARTMENT: IT

CLASS: F. Y. B.Sc. IT SEMESTER: II MONTH: December to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. Gain an insight into designing web pages.
b. Use different ways of styling web pages using CSS.

PAPER, UNIT, TITLE	**SUBTOPICS**	NO OF LECTURES ALLOTED	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-III Web Applications Development Unit -I	**Internet and the World Wide Web:** What is Internet? Applications of Internet, E-mail, Telnet, FTP, E-commerce and Ebusiness. Internet Service Providers, Domain Name Server, Internet Address, World Wide Web (WWW): World Wide Web and its Evolution, Uniform Resource Locator (URL), Browsers, Common Features of Browsers, Search Engine, Web Server, HTTP Protocol.	4	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML5: Introduction, Formatting Text by using Tags, Using Lists, Creating Hyperlinks and Bookmarks, Defining Metadata about an HTML Document, Redirecting to another URL.	4		Black Board/PowerPoint Presentation
	CSS: Implementing Styles using CSS – Stylesheets, Formatting Text and Links using CSS, CSS Selectors, Changing Background, Adding Border, Margin and Padding, Setting Dimensions, Using Inline Container to mark up a part of a text.	4		Black Board/PowerPoint Presentation

Paper-III Web Applications Development Unit -II	**HTML Page Layout:** Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames.	2	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML Media: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page.	3		Black Board/PowerPoint Presentation
	HTML Tables: Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment	4		Black Board/PowerPoint Presentation
	HTML Forms: Collecting user input with HTML Forms, Additional Input Types in HTML5.	3		Black Board/PowerPoint Presentation
Paper-III Web Applications Development Unit -III	**JavaScript:** Introduction, Difference between Client-side and Server-side Scripting, JavaScript Variables and Constants, Data Types, Statements, Comments, Functions, Variable Scope, Hoisting, Strict Mode, JavaScript Objects, Dialog Boxes, void Keyword	2	The Complete Reference JavaScript Thomas A. Powell & Fritz Schneider McGrawHill 3 rd 2012	Black Board/PowerPoint Presentation
	Operators: Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators, Bitwise Operators	2		Black Board/PowerPoint Presentation
	Statements: Conditional Statements – if else, switch, Loops – while, do while, for, for in, for of, Loop Control – break, continue, labels	2		Black Board/PowerPoint Presentation
	JavaScript Objects: User-defined Objects, with Keyword, Native Objects – Array, String, Date, Math, Number, RegExp	2		Black Board/PowerPoint Presentation
	DOM: Introduction, DOM Properties and Methods. **Browser BOM:** Moving back and forward with History, Cookies	2		Black Board/PowerPoint Presentation
	Events and Event Handlers: HTML Events, DOM Events, DOM Event Listener, onAbort, onBlur, onChange, onClick, onDblClick, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove,	2		Black Board/PowerPoint Presentation

	onMouseOut, onMouseOver, onMouseUp, onReset, onResize, onSelect, on Submit, onUnload			
Paper-III Web Applications Development Unit -IV	**PHP:** Introduction, Server-side Scripting, PHP Syntax and Comments, Variables and Constants, Data Types, Control Structures, Looping, Loop Termination, Functions, PHP Form Handling, PHP Form Validation, Superglobals, PHP Arrays, PHP Strings, PHP RegEx, PHP Numbers, PHP Math, Basic PHP Error	12	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation
Paper-III Web Applications Development Unit -V	**Advanced PHP:** PHP Date and Time, PHP Include, PHP Cookies, PHP Sessions, Validating and Sanitizing Data with PHP Filters	6	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation
	PHP and MySQL Why PHP and MySQL? Connect to MySQL, Creating Database and Tables, Inserting Single and Multiple Rows, Retrieving Last ID, MySQL Prepared, Selecting Data, Updating Data, Deleting Data, Limiting Data	6	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr. Avinash Dilip Sonawane DEPARTMENT: Information Technology CLASS: FYIT

SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit V	Designing Embedded System with 8051 Microcontroller: Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging	4		Black board & Chalk
	Design and Development: Embedded system, development Environment – IDE, types of file generated on cross compilation, Embedded Product Development cycle and Trends in embedded Industry	4		Black board & Chalk

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

A.D. Sonawane

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: FYIT

SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit II	**Interfacing of I/O Devices** Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits. **Introduction to 8085 Assembly Language Programming:** The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program. **Introduction to 8085 Instructions:** Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program.	12	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk
Fundamentals of Micro	**Programming Techniques With Additional Instructions:** ProgrammingTechniques: Looping, Counting and Indexing,	12	Microprocessors Architecture,	Black board & Chalk

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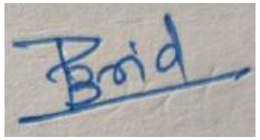
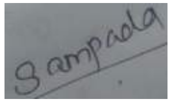
TEACHING PLAN (UNIT PLAN)

Processor and			Programming and	
Microcontrollers **USIT202** Unit III	Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging. **Counters and Time Delays:** Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs. **Stacks and Sub-Routines:** Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts. **Interrupts:** The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.		Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: IT
CLASS: FYIT SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: .

- To understand the concept of Green Technology.
- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless work.
- To know the concept of Recycling.
- To understand Metrics for Green IT.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Green IT (USIT205) Unit I	**Overview to Green IT:** Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power.	04	Programming with c Byron Gottfried Tata McGRAWHill 1996	Black board and chalk
	Regulating Green IT: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.	04		
	Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace	04		

Green IT (USIT205) Unit II	**Minimizing Power Usage:** Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management,	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software.	04		
	Cooling: Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.	04		
Green IT (USIT205) Unit III	**Greening IT:** Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications.	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Changing the Way of Work: Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource	04		
	Going Paperless: Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers	04		

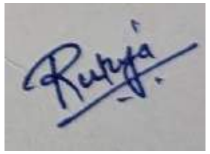
	vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.			

Green IT (USIT205) Unit IV	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications,	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mind-set, David vs. America Online.	04		
	Hardware Considerations: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection	04		

Green IT (USIT205) Unit V	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	04		
	Staying Green: Organizational Check-ups, Chief Green Officer, Evolution, Sell the	04		

	CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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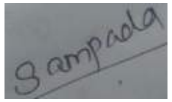

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE.　　DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: F.Y.B.Sc.IT - B　　SEMESTER: II　　MONTH: DECEMBER-APRIL　　ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

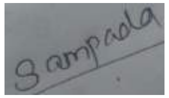
- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

	Stacks and Sub-Routines: Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Interrupts: The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
Paper 02 Microprocessor and Microcontroller UNIT-4	**Micro Controllers:** Embedded Systems and general purpose computer systems,history, classifications, applications and purpose of embedded systems.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family,external peripherals, memory – RAM , ROM, types of RAM and ROM, memorytesting, CRC ,Flash memory.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk

	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits,External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embeddedsystems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: CS
CLASS: F.Y.B.Sc.IT DIV:B SEMESTER: II MONTH: DEC TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

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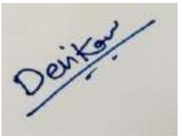
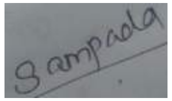
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.
USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

	INPUT-OUTPUT AND MANIPULATORS IN C++: Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators			
USIT201 Object Oriented Programming UNIT-IV	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File, File Opening Modes Checking End of File, Random Access in File, Command Line Arguments, Working with Binary Mode Error Handling **TEMPLATE PROGRAMMING:** Introduction , Function Template , Class Template **EXCEPTION HANDLING IN C++ :** Introduction , Basics of Exception Handling , Exception Handling Mechanism , Programming Examples ,Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton's Forward Difference Interpolation, Newton's Backward Difference Interpolation	3		
	Lagrange's Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashwant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

D. Pawar.

SIGNATURE OF THE STAFF

Sampada

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT
CLASS: FYIT SEMESTER: II MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Design static web pages using Hyper Text Markup Language (HTML).
- 2. Enhance the look of web pages by implementing CSS.
- 3. Collect information from the user with HTML Forms.
- 4. Design interactive webpages using client-side script (JavaScript).
- 5. Implement Document Object Model and events in web pages using JavaScript.
- 6. Write and deploy basic PHP code to simplify web development.
- 7. Store and retrieve data from a server using PHP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Applications Development (USIT203) Unit I	**Internet and the World Wide Web**: What is Internet? Applications of Internet, E-mail, Telnet, FTP, E-commerce and Ebusiness. Internet Service Providers, Domain Name Server, Internet Address, World Wide Web (WWW): World Wide Web and its Evolution, Uniform Resource Locator (URL), Browsers, Common Features of Browsers, Search Engine, Web Server, HTTP Protocol. **HTML5:** Introduction, Formatting Text by using Tags, Using Lists, Creating Hyperlinks and Bookmarks, Defining	12	The Complete Reference HTML & CSS. Thomas A. Powell	Black Board and Chalk

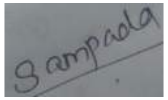
	Metadata about an HTML Document, Redirecting to another URL.			

	CSS: Implementing Styles using CSS – Stylesheets, Formatting Text and Links using CSS, CSS Selectors, Changing Background, Adding Border, Margin and Padding, Setting Dimensions, Using Inline Container to mark up a part of a text.			
Web Applications Development (USIT203) Unit II	**HTML Page Layout**: Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames. **HTML Media, Tables and Forms**: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page. Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment Collecting user input with HTML Forms, Additional Input Types in HTML5.	12	Step by Step HTML5. Faithe Wempen.	Black Board and Chalk

Web Applications Development (USIT203) Unit III	**JavaScript:** Introduction, Difference between Client-side and Server-side Scripting, JavaScript Variables and Constants, Data Types, Statements, Comments, Functions, Variable Scope, Hoisting, Strict Mode, JavaScript Objects, Dialog Boxes, void Keyword **Operators:** Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators, Bitwise Operators **Statements:** Conditional Statements – if else, switch, Loops – while, do while, for, for in, for of, Loop Control – break, continue, labels **JavaScript Objects**: User-defined Objects, with Keyword, Native Objects – Array, String, Date, Math, Number, RegExp **DOM**: Introduction, DOM Properties and Methods.	12	Learning Web Design A Beginner's Guide to Html, CSS, JavaScript, And Web Graphics Jennifer Niederst Robbins	Black Board and Chalk
	Browser BOM: Moving back and forward with History, Cookies **Events and Event Handlers:** HTML Events, DOM Events, DOM Event Listener, onAbort, onBlur, onChange, onClick, onDblClick, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onReset, onResize, onSelect, onSubmit, onUnload			
Web Applications Development (USIT203) Unit IV	PHP: Introduction, Server-side Scripting, PHP Syntax and Comments, Variables and Constants, Data Types, Control Structures, Looping, Loop Termination, Functions, PHP Form Handling, PHP Form Validation, Superglobals, PHP Arrays, PHP Strings, PHP RegEx, PHP Numbers, PHP Math, Basic PHP Errors	12	PHP & MySQL Novice to Ninja Tom Butler	Black Board and Chalk

Web Applications Development (USIT203) Unit V	**Advanced PHP**: PHP Date and Time, PHP Include, PHP Cookies, PHP Sessions, Validating and Sanitizing Data with PHP Filters PHP and MySQL **Why PHP and MySQL?** Connect to MySQL, Creating Database and Tables, Inserting Single and Multiple Rows, Retrieving Last ID, MySQL Prepared, Selecting Data, Updating Data, Deleting Data, Limiting Data.	12	PHP & MySQL Novice to Ninja Tom Butler	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: FYIT

SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit II	**Interfacing of I/O Devices** Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits. **Introduction to 8085 Assembly Language Programming:** The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program. **Introduction to 8085 Instructions:** Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program.	12	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk

Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit III	**Programming Techniques With Additional Instructions:** ProgrammingTechniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging. **Counters and Time Delays:** Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs. **Stacks and Sub-Routines:** Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts. **Interrupts:** The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.	12	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA. DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: F.Y.B.Sc.IT - C SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Namita Nitin Rode. **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: Information Technology.

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: Dec To March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

USIT201 Object Oriented Programming UNIT-II	**FUNCTION IN C++**: Introduction ,Function Declaration/Prototyping ,,The Main Function in C++,Recursion ,Call by Reference ,Call by Reference Vs Call by Address , Return by Reference ,,Inline Function ,Function Overloading ,Function with Default Arguments **CLASS AND OBJECTS IN C++** : Working with Class, Structure in C++ ,Accessing Private Data Passing and Returning Object ,Array of Object ,Friend Function ,Static Class Members ,Constant Member Function **WORKING WITH CONSTRUCTOR AND DESTRUCTOR:** Introduction, Constructor with Parameters, Implicit and Explicit Call to	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

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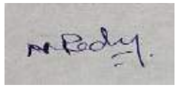
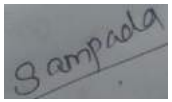
	Constructor, Copy Constructor, Dynamic Initialization of Objects, Dynamic Constructor, Destructor **WORKING WITH OPERATOR OVERLOADING:** Introduction, Operator Overloading with Binary Operator Overloading Assignment (=) Operator, Overloading Unary Operators, Overloading Using Friend Function, Rules of Operator Overloading, Type Conversion			
USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor **INPUT-OUTPUT AND MANIPULATORS IN C++:** Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: IT CLASS: FYIT-DIV C
SEMESTER: SEM-2 MONTH: DECEMBER -APRIL ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 OBJECT ORIENTED PROGRAMMING UNIT 4	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File,File Opening Modes Checking End of File, Random Access in File, Command LineArguments, Working with Binary Mode Error Handling	5	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	PROJECTOR,LAPTOP, BLACK BOARD AND CHALK
	TEMPLATE PROGRAMMING: Introduction , Function Template , ClassTemplate	3	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	

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	EXCEPTION HANDLING IN C++ : Introduction , Basics of Exception Handling ,Exception Handling Mechanism , Programming Examples Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function	4	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	
PAPER 1 OBJECT ORIENTED PROGRAMMING UNIT 5	INTRODUCTION TO THE STANDARD TEMPLATE LIBRARY : Introduction ,Components of STL , Containers , Algorithms , Iterators ,Application of Container Classes Function Objects	4	Object Oriented Programming with C++ by E.Balagurusamy	PROJECTOR,LAPTOP, BLACK BOARD AND CHALK
	MANIPULATING STRINGS :Introduction , Creating (string) Objects ,Manipulating String Objects , Relational Operations, String Characteristics, Accessing Characters in Strings , Comparing and Swapping	4	Object Oriented Programming with C++ by E.Balagurusamy	
	NEW FEATURES OF ANSI C++ STANDARD : Introduction ,New Data Types, New Operators , Class Implementation , Namespace Scope , Operator Keywords, New Keywords , New Headers.	4	Object Oriented Programming with C++ by E.Balagurusamy	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Sampada

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton's Forward Difference Interpolation, Newton's Backward Difference Interpolation	3		
	Lagrange's Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

D. Pawar.

SIGNATURE OF THE STAFF

Sampada

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak   DEPARTMENT: Information Technology

CLASS: FYIT   SEMESTER: **II**   MONTH: NOV to MARCH   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

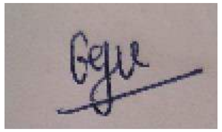
To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

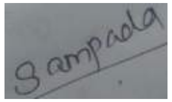
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Micro Processor and Microcontrollers Unit 4	**Micro Controllers:** Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Micro Processor and Microcontrollers Unit 5	**Designing Embedded System with 8051 Microcontroller:** Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	Design and Development: Embedded system, development Environment – IDE, types of file generated on cross compilation, Embedded Product Development cycle and Trends in embedded Industry	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: F. Y. B.Sc. IT SEMESTER: II MONTH: January to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. Gain an insight into designing web pages.
b. Use different ways of styling web pages using CSS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Web Applications Development Unit -II	**HTML Page Layout:** Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames.	2	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML Media: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page.	3		Black Board/PowerPoint Presentation
	HTML Tables: Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment	4		Black Board/PowerPoint Presentation
	HTML Forms: Collecting user input with HTML Forms, Additional Input Types in HTML5.	3		Black Board/PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita Sampada

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartrak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: III MONTH: SEP to DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- This course aims to provide conceptual understanding of developing strong foundation in general writing, including research proposal and reports.
- It covers the technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.
- This course aims to provide conceptual understanding of innovation and entrepreneurship development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 **Technical Writing and Entrepreneurship Development**, Unit-3	**Creating Graphics:** The Functions of Graphics, The Characteristics of an Effective Graphic, Understanding the Process of Creating Graphics, Using Color Effectively, Choosing the Appropriate Kind of Graphic, Creating Effective Graphics for Multicultural Readers.	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Researching Your Subject: Understanding the Differences Between Academic and Workplace Research, Understanding the Research Process, Conducting Secondary Research, Conducting Primary Research,	3	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

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			Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Research and Documentation: Literature Reviews, Interviewing for Information, Documenting Sources, Copyright, Paraphrasing, Questionnaires.	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Report Components: Abstracts, Introductions, Tables of Contents, Executive Summaries, Feasibility Reports, Investigative Reports, Laboratory Reports, Test Reports, Trip Reports, Trouble Reports	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Managing innovation within firms: Organisations and innovation, The dilemma of innovation management, Innovation dilemma in low technology sectors, Dynamic	2	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

Paper-01 **Technical Writing and Entrepreneurship Development**, Unit-5	capabilities, Managing uncertainty, Managing innovation projects		Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Operations and process innovation: Operations management, The nature of design and innovation in the context of operations, Process design, Process design and innovation	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Managing intellectual property: Intellectual property, Trade secrets, An introduction to patents, Trademarks, Brand names, Copyright	2	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Management of research and development: What is research and development?, R&D management and the industrial context, R&D investment and company success, Classifying R&D, R&D management and its link with	3	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

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	business strategy, Strategic pressures on R&D, Which business to support and how?, Allocation of funds to R&D, Level of R&D expenditure		Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Managing R&D projects: Successful technology management, The changing nature of R&D management, The acquisition of external technology, Effective R&D management, The link with the product innovation process, Evaluating R&D projects.	2	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: MSC(IT) PART 1 SEMESTER: I MONTH: OCTOBER-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

Develop in depth understanding of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics. Practice problem analysis and decision-making. Gain practical, hands-on experience with statistics programming languages and big data tools through coursework and appliedresearch experiences.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: PSIT102 unit:3, Title: : Data Science	Assess Superstep: Assess Superstep, Errors, Analysis of Data, Practical Actions, Engineering a Practical Assess Superstep,	12	Principles of Data Science Sinan Ozdemir PACKT 2016	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. Understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –I	**Data Science Technology Stack:** Rapid Information Factory Ecosystem, Data Science Storage Tools, Data Lake, Data Vault, DataWarehouse Bus Matrix, Data Science Processing Tools ,Spark, Mesos,Akka , Cassandra, Kafka, Elastic Search, R ,Scala, Python, MQTT, The Future	4	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Layered Framework: Definition of Data Science Framework, Cross-Industry Standard Process for Data Mining (CRISP-DM), Homogeneous Ontology for Recursive Uniform Schema, The TopLayers of a Layered Framework, Layered Framework for High-LevelData Science and Engineering	4		Powerpoint presentation through Google Meet
	Business Layer: Business Layer, Engineering a Practical BusinessLayer	2		Powerpoint presentation through Google Meet
	Utility Layer: Basic Utility Design, Engineering a Practical Utility Layer	2		Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
.b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –II	**Three Management Layers:** Operational Management Layer, Processing-Stream Definition and Management, Audit, Balance, andControl Layer, Balance, Control, Yoke Solution, Cause-and-Effect, Analysis System, Functional Layer, Data Science Process	6	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Retrieve Superstep : Data Lakes, Data Swamps, Training the Trainer Model, Understanding the Business Dynamics of the Data Lake, Actionable Business Knowledge from Data Lakes, Engineering a Practical Retrieve Superstep, Connecting to Other Data Sources,	6		Powerpoint presentation through Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: Msc. I. T SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
.b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –V	**Transform Superstep:** Univariate Analysis, Bivariate Analysis, Multivariate Analysis, Linear Regression, Logistic Regression, Clustering Techniques, ANOVA, Principal Component Analysis (PCA), Decision Trees, Support Vector Machines, Networks, Clusters, and Grids, Data Mining, Pattern Recognition, Machine Learning, Bagging Data,Random Forests, Computer Vision (CV) , Natural Language Processing (NLP), Neural Networks, TensorFlow.	9	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Organize and Report Supersteps : Organize Superstep, Report Superstep, Graphics, Pictures, Showing the Difference	3		Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. P. PALAV (MANE)**_______________DEPARTMENT:_______**INFORMATION TECHNOLOGY**____________________CLASS: ____**MSC(IT)**_______________ SEMESTER:____**I**___________ MONTH: _ **SEPTEMBER-DECEMBER**___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

- **Understand Soft computing concepts like fuzzy logic, neural networks and genetic algorithm, where Artificial Intelligence is mother branch of all.**
- **All these techniques will be more effective to solve the problem efficiently. Identify and describe soft computing techniques and their roles in building intelligent machines.**
- **Recognize the feasibility of applying a soft computing methodology or a particular problem**
- **Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems**
- **Apply genetic algorithms to combinatorial optimization problems**
- **Apply neural networks for classification and regression problems**
- **Effectively use existing software tools to solve real problems using a soft computing approach**
- **Evaluate and compare solutions by various soft computing approaches for a given problem.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT104 **Soft Computing Techniques** **Unit No -03**	UnSupervised Learning Networks: Fixed weight competitive nets, Kohonen self-organizing feature maps, learning vectors quantization, counter propogation networks, adaptive resonance theory networks. Special Networks: Simulated annealing, Boltzman machine, Gaussian Machine, Cauchy Machine, Probabilistic neural net, cascade correlation network, cognition network, neo-cognition network, cellular neural network, optical neural network.	05 05	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.

Unit No -04	Third Generation Neural Networks: Spiking Neural networks, convolutional neural networks, deep learning neural networks, extreme learning machine model.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
	Introduction to Fuzzy Logic, Classical Sets and Fuzzy sets: Classical sets, Fuzzy sets. Classical Relations and Fuzzy Relations: Cartesian Product of relation, classical relation, fuzzy relations, tolerance and equivalence relations, non-iterative fuzzy sets. Membership Function: features of the membership functions, fuzzification, methods of membership value assignments. Defuzzification: Lambda-cuts for fuzzy sets, Lambda-cuts for fuzzy relations, Defuzzification methods. Fuzzy Arithmetic and Fuzzy measures: fuzzy arithmetic, fuzzy measures, measures of fuzziness, fuzzy integrals.	02 03 02 02 03	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Fuzzy Rule base and Approximate reasoning: Fuzzy proportion, formation of rules, decomposition of rules, aggregation of fuzzy rules, fuzzy reasoning, fuzzy inference systems,Fuzzy logic control systems, control system design, architecture and operation of FLC system, FLC system models and applications of FLC System. Genetic Algorithm: Biological Background, Traditional optimization and search techniques, genetic algorithm and search space, genetic algorithm vs. traditional algorithms, basic terminologies, simple genetic algorithm, general genetic algorithm, operators in genetic algorithm, stopping condition for genetic algorithm flow, constraints in genetic algorithm, problem solving using genetic algorithm, the schema theorem, classification of genetic algorithm, Holland classifier systems, genetic programming, advantages and limitations and applications of genetic algorithm.	03 06	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.

	Differential Evolution Algorithm, Hybrid soft computing techniques – neuro – fuzzy hybrid, genetic neuro-hybrid systems, genetic fuzzy hybrid and fuzzy genetic hybrid systems.	03		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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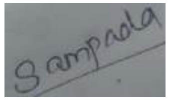

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A. PALAV (MANE)**________________DEPARTMENT:_______**INFORMATION TECHNOLOGY**_____________________CLASS:____**MSC(IT)**_______________ SEMESTER:____**III**___________ MONTH: ______ **SEPTEMBER-DECEMBER** ___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

Understanding Human learning aspects.

Understanding primitives in learning process by computer.

Understanding nature of problems solved with Machine Learning

- Understand the key issues in Machine Learning and its associated applications in intelligent business and scientific computing.
- Acquire the knowledge about classification and regression techniques where a learner will be able to explore his skill to generate data base knowledge using the prescribed techniques.
- Understand and implement the techniques for extracting the knowledge using machine learning methods.
- Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.
- Understand the statistical approach related to machine learning. He will also Apply the algorithms to a real-world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Elective 2 PSIT303a Machine Learning **Unit No -03**	**Linear Models:** Least Squares method, Multivariate Linear Regression, Regularized Regression, Using Least Square regression for Classification. Perceptron, Support Vector Machines, Soft Margin SVM, Obtaining probabilities from Linear classifiers, Kernel methods for non-Linearity.	12	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -04	**Logic Based and Algebraic Model: Distance Based Models:** Neighbours and Examples, Nearest Neighbours Classification, Distance based clustering-K means Algorithm, Hierarchical clustering, **Rule Based Models:** Rule learning for subgroup discovery, Association rule mining. **Tree Based Models:** Decision Trees, Ranking and Probability estimation Trees, Regression trees, Clustering Trees.	06 03 03	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.

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	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Probabilistic Model: Normal Distribution and Its Geometric Interpretations, Naïve Bayes Classifier, Discriminative learning with Maximum likelihood, Probabilistic Models with Hidden variables: Estimation-Maximization Methods, Gaussian Mixtures, and Compression based Models. **Trends In Machine Learning :** Model and Symbols- Bagging and Boosting, Multitask learning, Online learning and Sequence Prediction, Data Streams and Active Learning, Deep Learning, Reinforcement Learning.	07 05	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understad the developing strong foundation in general writing, including research proposal and reports.
b. prepare technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Technical Writing And Entrepreneurship Development Unit –II	**Introduction to Content Writing:** Types of Content (Article, Blog, E-Books, Press Release, Newsletters Etc), Exploring Content Publication Channels. Distribution of your content across various channels.	4	Handbook of Technical Writing — Gerald J. Alred , Charles T. Brusaw , Walter E. Oliu	Google Meet with Powerpoint Presentation
	Blog Creation: Understand the psychology behind your web traffic, Creating killing landing pages which attract users, Using Landing Page Creators, Setting up Accelerated Mobile Pages, Identifying UI UX Experience of your website or blog.	4		Google Meet with Powerpoint Presentation
	Organizing Your Information: Understanding Three Principles for Organizing Technical Information, Understanding Conventional Organizational Patterns	2		Google Meet with Powerpoint Presentation

	Emphasizing Important Information: Writing Clear, Informative Titles, Writing Clear, Informative Headings, Writing Clear Informative Lists, Writing Clear Informative Paragraphs.	2		Google Meet with Powerpoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: III MONTH:September -December ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understad the developing strong foundation in general writing, including research proposal and reports.

b. prepare technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Writing Proposals: Understanding the Process of Writing Proposals, The Logistics of Proposals, The “Deliverables” of Proposals, Persuasion and Proposals, Writing a Proposal, The Structure of the Proposal.	4	Handboo k of Technical	Google Meet with Powerpoint Presentation

Paper-I Technical Writing And Entrepreneurship Development Unit –IV	**Writing Informational Reports:** Understanding the Process of Writing Informational Reports, Writing Directives, Writing Field Reports, Writing Progress and Status Reports, Writing Incident Reports, Writing Meeting Minutes. **Writing Recommendation Reports:** Understanding the Role of Recommendation Reports, Using a Problem-Solving Model for Preparing Recommendation Reports, Writing Recommendation Reports.	4	Writing	Gerald J. Alred , Charles T. Brusaw , Walter E. Oliu	Google Meet with Powerpoint Presentation
	Reviewing, Evaluating, and Testing Documents and Websites: Understanding Reviewing, Evaluating, and Testing, Reviewing Documents and Websites, Conducting Usability Evaluations, Conducting Usability Tests, Using Internet tools to	4			Google Meet with Powerpoint Presentation

	check writing Quality, Duplicate Content Detector, What is Plagiarism?, How to avoid writing plagiarism content? **Innovation management: an introduction:** The importance of innovation, Models of innovation, Innovation as a management process. **Market adoption and technology diffusion:** Time lag between innovation and useable product, Innovation and the market , Innovation and market vision ,Analysing internet search data to help			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. To get the insight of the security loopholes in every aspect of computing.
b. To understand the threats and different types of attacks that can be launched on computing systems.
c. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -I	**Introduction to Security Breaching**: Overview of Information Security, Threats and Attack vectors, Concepts of Hacking – Ethical and Unethical, Information Security Controls, Concepts of penetration Testing, Information Security Laws and Standards.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Evaluation Security of IT Organisation: Concepts, Methodology, Tools, Countermeasures, Penetration Testing.	3		PowerPoint presentation
	Network Scanning: Concepts, Scanning beyond IDS and firewalls, Tools, Banner Grabbing, Scanning Techniques, Network Diagrams, penetration testing.	3		PowerPoint presentation
	Enumeration: Concepts, Different types of enumeration: Netbios, SNMP, LDAP, NTP, SMTP, DNS, other enumeration techniques, Countermeasures, Penetration Testing	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita Sampada

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

d. To get the insight of the security loopholes in every aspect of computing.
e. To understand the threats and different types of attacks that can be launched on computing systems.
f. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -II	**Analysis of Vulnerability:** Concepts, Assessment Solutions, Scoring Systems, Assessment Tools, Assessment Reports.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Breaching System Security: Concepts, Cracking passwords, Escalating privileges, Executing Applications, Hiding files, covering tracks, penetration testing.	3		PowerPoint presentation
	Threats due to malware: Concepts, Malware Analysis, Trojan concepts, countermeasures, Virus and worm concepts, anti-malware software, penetration testing.	3		PowerPoint presentation
	Network Sniffing: Concepts, countermeasures, sniffing techniques, detection techniques, tools, penetration testing.	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT

CLASS: M. Sc. I. T   SEMESTER: III   MONTH: September-December   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To get the insight of the security loopholes in every aspect of computing.
b. To understand the threats and different types of attacks that can be launched on computing systems.
c. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -III	**Social Engineering:** Concepts, Impersonation on networking sites, Techniques, Identity theft, Insider threats, countermeasures, Pen testing.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Denial of Service and Distributed Denial of service: Concepts, techniques, botnets, attack tools, countermeasures, protection tools, penetration testing.	3		PowerPoint presentation
	Hijacking an active session: Concepts, tools, application level session hijacking, countermeasures, network level session hijacking, and penetration testing.	3		PowerPoint presentation
	Evasion of IDS, Firewalls and Honeypots: Introduction and concepts, detecting honeypots, evading IDS, IDS and Firewall evasion countermeasures, evading firewalls, penetration testing.	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita   Sampada

SIGNATURE OF THE STAFF   **SIGNATURE OF THE H.O.D.**

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartrak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: III MONTH: SEPT to DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To be able to conduct business research with an understanding of all the latest theories.
- To develop the ability to explore research techniques used for solving any real world or innovate problem.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 Research in Computing, Unit-1	**Introduction:** Role of Business Research, Information Systems and Knowledge Management, Theory Building, Organization ethics and Issues	12	Business Research Methods--William G.Zikmund, B.J Babin, J.C. Carr,	Laptop, PPT, Google Meet
Paper-01 Research in Computing, Unit-2	**Beginning Stages of Research Process:** Problem definition, Qualitative research tools, Secondary data research	12	Business Research Methods--William G.Zikmund, B.J Babin, J.C. Carr,	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -I	Computer Forensics: The present Scenario: Introduction to computer forensics, History of computer forensics, Computer forensics flaws and risks, Cybercrime, Role of computer forensics, Reason for cyber-attacks, Modes of attacks, Cyber war	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	The Investigation Process : Investigating methodology, Evaluating the case, Investigation plan, Importance of data-recovery workstations and software, Implementing an investigation, Collecting the evidence, Closing the case, Case evaluation	3		PowerPoint presentation
	Computers – Searching and Seizing, Electronic Evidence: Identifying Digital Evidence, Preparing for a Search, Seizing Digital Evidence at the Scene, Storing Digital Evidence, Reviewing a Case	3		PowerPoint presentation
	Procedures to be followed by the first responder: What is an incident?, Incident response team, How to report an incident?, CSIRT categorization, Need for CSIRT, What does CSIRT do?	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -II	Setting up a lab for Computer Forensics: Budget allocation for a forensic lab, Physical location, General configuration , Equipment needs, Basic workstation requirements, Ambience, Physical security recommendations, Auditing, Forensics lab licensing requisite, Forensics lab staff responsibilities	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Hard Disks and File Systems: Understanding file systems, examining MS-DOS, Windows, Linux, NTFS, Understanding Disk Partitions	3		PowerPoint presentation
	Forensics on Windows Machine: Locating evidence on Windows systems, Gathering volatile evidence, Investigating Windows file slack, Examining file systems, Checking Registry, Importance of Memory dump, System state backup, Investigating Internet traces	3		PowerPoint presentation
	Acquire and Duplicate Data: Determining the best data acquisition methods, Understanding data recovery contingencies, Data preservation commands, The need for data duplication, Data duplication tools	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -III	Recovery of deleted files and partitions: Introduction to recovering image files, Digital evidence, Securing and recovering deleted files, Zero Assumption Digital Image Recovery, Data recovery in Linux, Data recovery tools	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Using Access Data FTK and Encase for forensics Investigation: Evaluating Computer Forensics Tool Needs, Computer Forensics Software Tools, Computer Forensics Hardware Tools, Validating and Testing Forensics Software	3		PowerPoint presentation
	Forensic analysis of Steganography and Image files : Recognize image files, data compression, Locate and recover image files, Analyze image file headers, Reconstructing file fragments, steganography in image files, Tools for viewing images	3		PowerPoint presentation
	Cracking Application passwords: Password- terminology, What is a password cracker?, Various cracking methods, Classification of cracking softwares, System software password cracking, Application software password cracking	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -IV	Capturing logs and correlating to the events: Examining intrusion and security events, Event gathering, End-to-end forensic investigation, Correlating logfiles, IDS loganalysis	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Network Forensics – Investigating logs and Network traffic: Sources of evidence on a network, Evidence collection and documentation on a network, Gathering evidence on a network, Documenting the gathered evidence on a network, Evidence reconstruction for investigation, Tools	3		PowerPoint presentation
	Investigating Wireless and Web Attacks: Types of web attacks, Indications of a web attack, Responding to a web attack, Overview of web logs, Investigating static and dynamic IP address, Tools	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: IV MONTH: January-May ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
b. To cover the technological underpinnings of blockchain operations as distributed data structuresand decision-making systems, their functionality and different architecture types. C.To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Blockchain Unit –I	Blockchain: Introduction, History, Centralised versus Decentralised systems, Layers of blockchain, Importance of blockchain, Blockchain uses and use cases.	4	Beginning BlockchainA Beginner’s Guide to Building Blockchain Solutions Bikramaditya Singhal, Gautam Dhameja,Priyansu Sekhar Panda	Powerpoint presentation through Google Meet
	Working of Blockchain: Blockchain foundation, Cryptography, Game Theory, Computer Science Engineering, Properties of blockchain solutions, blockchain transactions, distributed consensus mechanisms, Blockchain mechanisms, Scaling blockchain	4		Powerpoint presentation through Google Meet
	Working of Bitcoin: Money, Bitcoin, Bitcoin blockchain, bitcoin network, bitcoin scripts, Full Nodes and SVPs, Bitcoin wallets.	4		Powerpoint presentation through Google Meet
				Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: IV MONTH: January-May ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
b. To cover the technological underpinnings of blockchain operations as distributed data structuresand decision-making systems, their functionality and different architecture types. C.To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Blockchain Unit –II	Ethereum:three parts of blockchain, Ether as currency and commodity, Building trustlesssystems, Smart contracts, Ethereum Virtual Machine, The Mist browser, Wallets as a Computing Metaphor, The Bank Teller Metaphor, Breaking with Banking History, How Encryption Leads to Trust, System Requirements, Using Parity with Geth, Anonymity in Cryptocurrency, Central Bank Network, Virtual Machines, EVM Applications, State Machines, Guts of the EVM, Blocks, Mining’s Place in the State Transition Function, Renting Time on the EVM, Gas, Working with Gas, Accounts, Transactions, and Messages, Transactionsand Messages, Estimating Gas Fees for Operations, Opcodes in the EVM.	6	Beginning BlockchainA Beginner’s Guide to Building Blockchain Solutions Bikramaditya Singhal, Gautam Dhameja,Priyansu Sekhar Panda	Powerpoint presentation through Google Meet
	Solidity Programming: Introduction,Global Banking Made Real, Complementary Currency, Programming the EVM, Design Rationale, Importance of Formal Proofs, Automated Proofs, Testing, Formatting	6		Powerpoint presentation through Google meet

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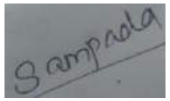
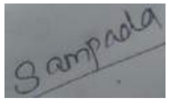
	Solidity Files, Reading Code, Statements and Expressions in Solidity, Value Types, Global Special Variables, Units, and Functions,			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. ARCHANA SANTOSH RAUT** DEPARTMENT: **_INFORMATION TECHNOLOGY**

CLASS: **MSC(IT)** SEMESTER: **III** MONTH: **SEPT-DEC** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

- To make the students aware about the automation today in the industry.
- To make the students aware about the tools used for automation.
- To help the students automate a complete process

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT304a Robotic Process Automation	**Sequence, Flowchart, and Control Flow:** Sequencing the workflow, Activities, Control flow, various types of loops, and decision making, Step-by-step example using Sequence and Flowchart, Step-by-step example using Sequence and Control flow	06	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
Unit II	**Data Manipulation:** Variables and scope, Collections, Arguments – Purpose and use, Data table usage with examples, Clipboard	06	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector

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	management, File operation with step-by-step example, CSV/Excel to data table and vice versa (with a step-by-step example)		Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
PSIT304a Robotic Process Automation **Unit V**	**Managing and Maintaining the Code:** Project organization, Nesting workflows, Reusability ofworkflows, Commenting techniques, State Machine, When to use Flowcharts, State Machines, or Sequences, Using config files and examples of a config file, Integrating a TFS server	**06**	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
	Deploying and Maintaining the Bot: Publishing using publish utility, Overview of Orchestration Server, Using Orchestration Server to control bots, Using Orchestration Server to deploy bots, License management, Publishing and managing updates	**06**	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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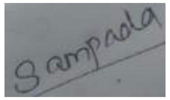

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A. PALAV (MANE)**_______________DEPARTMENT:_______**INFORMATION TECHNOLOGY**_____________________CLASS:____**MSC(IT)**_______________ SEMESTER:____**IV**___________ MONTH: ______ **FEBRUARY-MAY** ___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

- To present the mathematical, statistical and computational challenges of building neural networks
- To study the concepts of deep learning
- To enable the students to know deep learning techniques to support real-time applications
- Describes basics of mathematical foundation that will help the learner to understand the concepts of Deep Learning.
- Understand and describe model of deep learning
- Design and implement various deep supervised learning architectures for text & image data.
- Design and implement various deep learning models and architectures.
- Apply various deep learning techniques to design efficient algorithms for real-world applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
Elective 2 **PSIT403a** **Deep Learning** **Unit No -01**	**Applied Math and Machine Learning Basics:** Linear Algebra: Scalars, Vectors, Matrices and Tensors , Multiplying Matrices and Vectors , Identity and Inverse Matrices, Linear Dependence and Span , norms, special matrices and vectors, eigen decompositions. **Numerical Computation:** Overflow and under flow, poor	07	Deep Learning Ian Goodfellow, YoshuaBengio, Aaron Courvile	Blackboard , Chalk and Duster. PPts.

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	conditioning, Gradient Based Optimization, Constraint optimization.	05	An MIT Press book 1st, 2016. Fundamentals of Deep Learning Nikhil Buduma O'Reilly 1st, 2017.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -02	Deep Learning Research: Linear Factor Models, Autoencoders, representation learning	12	Deep Learning Ian Goodfellow, Yoshua Bengio, Aaron Courvile An MIT Press book 1st, 2016. Fundamentals of Deep Learning Nikhil Buduma O'Reilly 1st, 2017.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: IV MONTH: JAN to MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To provide conceptual understanding of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
- To cover the technological underpinnings of blockchain operations as distributed data structures and decision-making systems, their functionality and different architecture types.
- To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 **Block Chain,** Unit-3	**Hyperledger:** Overview, Fabric, composer, installing hyperledger fabric and composer, deploying, running the network, error troubleshooting.	6	Beginning Blockchain A Beginner’s Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet
	Smart Contracts and Tokens: EVM as Back End, Assets Backed by Anything, Cryptocurrency Is a Measure of Time, Function of Collectibles in Human Systems, Platforms for High-Value Digital Collectibles, Tokens as Category of Smart Contract, Creating a Token, Deploying the Contract, Playing with Contracts.	6	Beginning Blockchain A Beginner’s Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar	Laptop, PPT, Google Meet

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			Panda	
Paper-01 **Block Chain**, Unit-4	**Mining Ether:** Why? Ether's Source, Defining Mining, Difficulty, Self-Regulation, and the Race for Profit, How Proof of Work Helps Regulate Block Time, DAG and Nonce, Faster Blocks, Stale Blocks, Difficulties, Ancestry of Blocks and Transactions, Ethereum and Bitcoin, Forking, Mining, Geth on Windows, Executing Commands in the EVM via the Geth Console, Launching Geth with Flags, Mining on the Testnet, GPU Mining Rigs, Mining on a Pool with Multiple GPUs.	6	Beginning Blockchain A Beginner's Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet
	Cryptoecnomics: Introduction, Usefulness of cryptoeconomics, Speed of blocks, Ether Issuance scheme, Common Attack Scenarios.	6	Beginning Blockchain A Beginner's Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: M.Sc. IT (Human Computer Interaction) SEMESTER:IV MONTH: FEB-APR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :
- Understand the important aspects of implementation of human-computer interfaces.
- Identify the various tools and techniques for interface analysis, design, and evaluation.
- Identify the impact of usable interfaces in the acceptance and performance utilization of information systems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Human Computer Interaction	**The Interaction**: Models of interaction, Design Focus, Frameworks and HCI, Ergonomics, Interaction styles, **Elements of the WIMP interface,Interactivity** **Paradigms**: Introduction, Paradigms for interaction **Interaction design basics**: What is design?, The process of design, User focus, Cultural probes, Navigation design, the big button trap, Modes, Screen design and layout, Alignment and layout matters, Checking screen colors, Iteration and prototyping **HCI in the software process**: The software life cycle, Usability engineering , Iterative design and prototyping, Prototyping in practice, Design rationale	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION

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UNIT 2 Human Computer Interaction	**Design**: Principles to support usability, Standards, Guidelines, Golden rules and heuristics, HCI patterns **Implementation support**: Elements of windowing systems, Programming the application, Going with the grain, Using toolkits, User interface management **Systems Evaluation techniques:** What is evaluation?, Goals of evaluation, Evaluation through expert analysis,Evaluation through user participation, Choosing an evaluation method	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION
UNIT 3 Human Computer Interaction	**Design**: Principles to support usability, Standards, Guidelines, Golden rules and heuristics **HCI patterns Implementation support**: Elements of windowing systems, Programming the application, Going with the grain, Using toolkits, User interface management systems **Evaluation techniques**: What is evaluation?, Goals of evaluation, Evaluation through expert analysis, Evaluation through user participation, Choosing an evaluation method	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -I	Elements of Modern Networking- The Networking Ecosystem ,Example Network Architectures, Ethernet, Wi-Fi, 4G/5G Cellular, Cloud Computing, Internet of Things, Network Convergence Unified Communications	6	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	Requirements and Technology- Types of Network and Internet Traffic, Demand: Big Data, Cloud Computing, and Mobile Traffic, Requirements: QoS and QoE, Routing, Congestion Control , SDN and NFV	6		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -IV	Defining and Supporting User Needs, Quality of Service, Integrated Services Architecture, Queuing Discipline, Differentiated Services, Forwarding PHB, Service Level Agreements, IP Performance Metrics	4	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	QoE: User Quality of Experience, QoE Considerations The QoE/QoS Layered Model, Measurements of QoE, Summarizing the QoE, Measurement Methods, Applications of QoE	4		PowerPoint presentation
	Network Design Implications of QoS and QoE Classification of QoE/ QoS Mapping Models, Black-Box Media-Based QoS/QoE Mapping Models, Glass- Box Parameter-Based QoS/QoE Mapping Models,Gray-Box QoS/QoE Mapping Models	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -V	Modern Network Architecture: Clouds and Fog, Cloud Computing, Cloud, Deployment Models, Cloud Architecture	4	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	The Internet of Things: Components The IoT Era Begins, Components of IoT-Enabled Things, The Internet of Things: Architecture and Implementation, IoT Architecture	4		PowerPoint presentation
	Security Requirements, SDN Security Threats to SDN, NFV Security, Cloud Security, IoT Security	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A.PALAV (MANE)_______________**DEPARTMENT:_______**INFORMATION TECHNOLOGY____________________**CLASS:____**MSC(IT)_______________** SEMESTER:____**II___________** MONTH: ______ **FEBRUARY-MAY ___________** ACADEMIC YEAR:_____**2022-2023________**

LEARNING OBJECTIVE/S:

The learners will be able to :

- **Review the fundamental concepts of a digital image processing system.**
- **Analyze images in the frequency domain using various transforms.**
- **Evaluate the techniques for image enhancement and image restoration.**
- **Categorize various compression techniques.**
- **Interpret Image compression standards.**
- **Interpret image segmentation and representation techniques.**
- **Understand the relevant aspects of digital image representation and their practical implications.**
- **Have the ability to design pointwise intensity transformations to meet stated specifications and understand 2-D convolution, the 2-D DFT, and have the abitilty to design systems using these concepts.**
- **Have a command of basic image restoration techniques. Understand the role of alternative color spaces, and the design requirements leading to choices of color space.**
- **Appreciate the utility of wavelet decompositions and their role in image processing systems. Have an understanding of the underlying mechanisms of image compression, and the ability to design systems using standard algorithms to meet design specifications.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT204 Image Processing **Unit No -01**	Introduction: Digital Image Processing, Origins of Digital Image Processing, Applications and Examples of Digital Image Processing, Fundamental Steps in Digital Image Processing, Components of an Image Processing System,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Digital Image Fundamentals: Elements of Visual Perception, Light and the Electromagnetic Spectrum, Image Sensing and Acquisition, Image Sampling and Quantization, Basic Relationships Between Pixels, Basic Mathematical Tools Used in Digital Image Processing,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts
	Intensity Transformations and Spatial Filtering: Basics, Basic Intensity Transformation Functions, Basic Intensity Transformation Functions, Histogram Processing, Fundamentals of Spatial Filtering, Smoothing (Lowpass) Spatial Filters, Sharpening (Highpass) Spatial Filters, Highpass, Bandreject, and Bandpass Filters from Lowpass Filters, Combining Spatial Enhancement Methods, Using Fuzzy Techniques for Intensity Transformations and Spatial Filtering	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -02	Filtering in the Frequency Domain: Background, Preliminary Concepts, Sampling and the Fourier Transform of Sampled Functions, The Discrete Fourier Transform of One Variable, Extensions to Functions of Two Variables, Properties of the 2-D DFT and IDFT, Basics of Filtering in the Frequency Domain, Image Smoothing Using Lowpass Frequency Domain	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.

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	Filters, Image Sharpening Using Highpass Filters, Selective Filtering, Fast Fourier Transform.			
	Image Restoration and Reconstruction: A Model of the Image Degradation/Restoration Process, Noise Models, Restoration in the Presence of Noise Only-----Spatial Filtering, Periodic Noise Reduction Using Frequency Domain Filtering, Linear, Position-Invariant Degradations, Estimating the Degradation Function, Inverse Filtering, Minimum Mean Square Error (Wiener) Filtering, Constrained Least Squares Filtering, Geometric Mean Filter, Image Reconstruction from Projections	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -03	Wavelet and Other Image Transforms: Preliminaries, Matrix-based Transforms, Correlation, Basis Functions in the Time-Frequency Plane, Basis images, Fourier-Related Transforms, Walsh-Hadamard Transforms, Slant Transform, Haar Transform, Wavelet Transforms	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Color Image Processing: Color Fundamentals, Color Models, Pseudocolor Image Processing, Full-Color Image Processing, Color Transformations, Color Image Smoothing and Sharpening, Using Color in Image Segmentation, Noise in Color Images, Color Image Compression.	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Image Compression and Watermarking: Fundamentals, Huffman Coding, Golomb Coding, Arithmetic Coding, LZW Coding, Run-length Coding, Symbol-based Coding, 8 Bit-plane Coding, Block Transform Coding,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition	Blackboard, Chalk and Duster. PPts.

	Predictive Coding, Wavelet Coding, Digital Image Watermarking,		Pearson/Prentice Hall, 2018.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -04	Morphological Image Processing: Preliminaries, Erosion and Dilation, Opening and Closing, The Hit-or-Miss Transform, Morphological Algorithms, Morphological Reconstruction¸ Morphological Operations on Binary Images, Grayscale Morphology	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Image Segmentation I: Edge Detection, Thresholding, and Region Detection: Fundamentals, Thresholding, Segmentation by Region Growing and by Region Splitting and Merging, Region Segmentation Using Clustering and Superpixels, Region Segmentation Using Graph Cuts, Segmentation Using Morphological Watersheds, Use of Motion in Segmentation	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Image Segmentation II: Active Contours: Snakes and Level Sets: Background, Image Segmentation Using Snakes, Segmentation Using Level Sets.	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Feature Extraction: Background, Boundary Preprocessing, Boundary Feature Descriptors, Region Feature Descriptors, Principal Components as Feature Descriptors, Whole-Image Features, Scale-Invariant Feature Transform (SIFT)	06	Digital Image Processing Gonzalez and Woods 4 rd Edition	Blackboard, Chalk and Duster. PPts.

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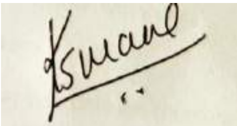
			Pearson/Prentice Hall, 2018.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			



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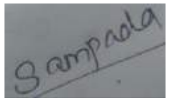

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: CS
CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- To learn how to design and program Python applications.
- To explore the innards of Python Programming and understand components of Python Program
- To define the structure and components of a Python program.
- To learn how to write loops and decision statements in Python
- To learn about inbuilt input/output operations and compound data types in Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURS ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming with Python (USCS102) Unit I	**Overview of Python:** History & Versions, Features of Python, Executionof a Python Program, Flavours of Python, Innards of Python, PythonInterpreter, Memory Management in Python, Garbage Collection in Python,Comparison of Python with C and Java, Installing Python, Writing and Executing First Python Program, Getting Help, IDLE	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Data Types, Variables and Other Basic Elements: Comments, Docstrings, Data types- Numeric Data type, Compound Data Type, Boolean Data type, Dictionary, Sets, Mapping, Basic Elements of Python,Variables	04		

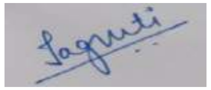
	Input and Output Operations: Input Function, Output Statements, The print() function, The print("string") function, The print(variables list) function, The print(object) function, The print(formatted string) function, Command Line Arguments	04		

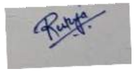
	Control Statements: The if statement, The if ... else Statement, The „if ...elif ... else" Statement, Loop Statement- while loop, for loop, Infinite loop, Nested loop, The else suite, break statement, continue statement, pass statement, assert statement, return statement	03		

Introduction to Programming with Python (USCS102) Unit II	**Operators**: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Arrays: Creating Arrays, Indexing and Slicing of Arrays, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic slicing, Advanced Indexing, Dimensions of Arrays, Attributes of an Array, The ndim Attribute, The shape Attribute, The size Attribute, The itemsize Attribute	04		
	Functions: Function definition and call, Returning Results, Returning Multiple Values from a Function, Built-in Functions, Difference between a Function and a Method, Pass Value by Object Reference, Parameters and Arguments, Formal and Actual Arguments, Positional Arguments, Keyword Arguments, Default Arguments, Arbitrary Arguments, Recursive Functions, Anonymous or Lambda Functions, Using Lambda with the filter() Function, Using Lambda with the map() Function, Using Lambda with the reduce() Function	05		

	Modules:Introduction to Modules in Python	02		
Introduction to Programming with Python (USCS102) Unit III	**Strings**: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing and Slicing, Repeating and Concatenating Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Immutability, Splitting and	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting Strings, Searching in the Strings, Testing Methods, Formatting Strings, Finding the Number of Characters and Words, Inserting Substrings into a String	04		
	List and Tuples: Lists, List Functions and Methods, List Operations, List Slices, Nested Lists, Tuples, Functions in Tuple	03		
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Converting Lists into Dictionary, Converting Strings into Dictionary, Passing Dictionaries to Functions, Sorting the Elements of a Dictionary using Lambda, Ordered Dictionaries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Suvarna S Kannav DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER-NOVEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: The learners will be able to : Students will learn basic skills and increase their sustainable interest in the Linux Operating System. It will also assist you build a Linux solution for real world problems and increase the knowledge required to comprehend the Linux operating system and its practical application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS103, LINUX Operating System, UNIT-I	**Linux operating system and Basics**: History, GNU Info and Utilities, Various Linux Distributions, The Unix/Linux architecture, Features of Unix/Linux, Starting the shell, Shell prompt, Command structure, File Systems and Directory Structure, man pages, more documentation pages	04	"Linux Command line and Shell Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill.	PowerPoint Presentation, OHP, Chalk and Black Board
	Basic Bash shell commands: General purpose utility Commands, basic commands, Various file types, attributes and File handling Commands, Handling Ordinary Files. More file attributes	03		
	Advanced Bash shell commands: Simple Filters, Filters using regular expressions.	04		
	The Linux environment variable: Setting, Locating and removing environment variables like PATH etc, Default shell environment variables, Using command aliases.	04		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		
	Understanding Linux file permission: Linux security, Using Linux groups, Decoding file permissions, Changing security setting, Sharing files.	04	"Linux Command line and Shell	PowerPoint Presentation, OHP, Chalk and Black Board

USCS103, LINUX Operating System, UNIT-II	**Linux Security:** Understanding Linux Security, uses of root, sudo command, working with passwords, Understanding ssh.	04	Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill.	
	Networking: TCP/IP Basics, TCP/IP Model, Resolving IP addresses, Applications, ping, telnet, ftp, DNS	04		
	Working withEditors: awk, sed and Introduction to vi	03		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		
USCS103, LINUX Operating System, UNIT-III	**Basic script building:** Using multiple commands, Creating script files, Displaying messages, Using variables, Redirecting Input and Output, Pipes performing math, Exiting the script.	05	"Linux Command line and Shell Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill. "Official Ubuntu Book", Matthew Helmke& Elizabeth K.	PowerPoint Presentation, OHP, Chalk and Black Board
	Using structured commands: Working with if-then, if-then-else and nested if statements, test command, Compound condition testing, while command, until command, case command.	04		
	Script and Process control: Handling signals, Running scripts in background mode, Running scripts without a console, Job control, Job scheduling commands: ps, nice, renice, at, batch, cron table, Running the script at boot	06		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		

			Joseph with Jose Antonio Rey and Philips Ballew, 8th Ed.	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AVINASH DILIP SONAWANE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to : Students learn differentiate between Open Source and Proprietary software and Licensing. Recognize the applications, benefits and features of Open-Source Technologies.Gain knowledge to start, manage open-source projects

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS104, Open Source Technologies UNIT-I	Introduction to Open-Source: Open Source, Need and Principles of OSS, Open-Source Standards, Requirements for Software, OSS success, Free Software, Examples, Licensing, Free Vs. Proprietary Software, Free Software Vs. Open-Source Software, Public Domain. History of free software, Proprietary Vs Open-Source Licensing Model, use of OpenSource Software, FOSS does not mean no cost. History: BSD, The Free Software Foundation and the GNU Project.	05	1.The Linux Documentation Project: http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/ 5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation: http://www.linuxfoundation.org/	Chalk and Black Board
	Open-Source Principles and Methodology: Open-Source History, OpenSource Initiatives, Open Standards Principles, Methodologies, Philosophy, Software freedom, Open-Source Software Development, Licenses, Copyright vs. Copy left, Patents, Zero marginal cost, Income-generation Opportunities, Internationalization.	05		

	. Licensing: What Is A License, How to create your own Licenses, Important FOSS Licenses (Apache, BSD, PL,	05		

	LGPL), copyrights and copy lefts, Patent			
	TOTAL	15		
USCS104, Open Source Technologies UNIT-II	Open-Source projects: Starting and maintaining own Open-Source Project, Open-Source Hardware, Open-Source Design, Open-source Teaching, Open-source media.	05	1.The Linux Documentation Project: http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/ 5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation: http://www.linuxfoundation.org/	Chalk and Black Board
	Collaboration: Community and Communication, Contributing to Open Source Projects Introduction to GitHub, interacting with the community on GitHub, Communication and etiquette, testing open-source code, reporting 15 Page 17 of 50 issues, contributing code. Introduction to Wikipedia, contributing to Wikipedia or contributing to any prominent open-source project of student's choice.	05		
	Open-Source Ethics and Social Impact: Open source vs. closed source, Open-source Government, Ethics of Open-source, Social and Financial impacts of open-source technology, Shared software, Shared source, Open Source as a Business Strategy	05		
	TOTAL	15		

USCS104, Open Source Technologies	Understanding Open-Source Ecosystem: Open-Source Operating Systems: GNU/Linux, Android, Free BSD, Open Solaris. Open-Source Hardware, Virtualization Technologies, Containerization Technologies: Docker, Development tools, IDEs, Debuggers, Programming	05	1.The Linux Documentation Project:http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/	Chalk and Black Board

UNIT-III	languages, LAMP, Open-Source Database technologies		5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation:http://www.linuxfoundation.org/	
	Case Studies: Example Projects: Apache Web server, BSD, GNU/Linux, Android, Mozilla (Firefox), Wikipedia, Drupal, WordPress, Git, GCC, GDB, GitHub, Open Office, LibreOffice Study: Understanding the developmental models, licensing, mode of funding, commercial/non-commercial use.	10		
	TOTAL	15		

A.D. Sonawane

Jagruti

Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 1

MONTH: August to November

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- The learners will be able to know descriptive statistical concepts
- The learner will able to study probability concepts required for computer learners.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper:	**a) Data types and Data Presentation**: • Data types: ➢ Attribute and variable ➢ discrete and continuous variable ➢ Different types of Scale: Nominal, Ordinal , Interval and Ratio ➢ Univariate and	**5**	**(Gupta & Kapoor: Chp 2: 2.1 - 2.2 and Schaum Series: Chp 1 & 2)**	Black board, chalk and Duster

	Bivariate Distribution ➢ Types of Classification			

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Descriptive statistics **Unit 1**	● Data presentation: frequency distribution,histogram, O give curves,			
	b) Introduction to R: ● Data input, Arithmetic operators, vector operations, Matrix operations, Data frames, Built-in Functions (e. g : seq(), round(), rep(), sort(), cut() , etc.) ● Frequency Distribution, Grouped frequency Distribution, Diagrams and Graphs, Summary Statistics for raw data and grouped frequency distribution.	**5**	(Statistics Using R by Purohit,S.G. , GoreS.D., Deshmukh S. R. (2008), Narosa Publishing House, New Delhi)	Black board, chalk and Duster
	Measures of Central Tendency: ● Concept of Average /Central tendency ● Characteristics of good	**5**	Gupta & Kapoor: Chp 2 and Schaum	Black board, chalk and Duster

	measure of central tendency ● Arithmetic mean , Median , Mode – Definition and example for ungrouped and grouped data, effect of shift of origin and change of scale, Merits and Demerits, Combined Arithmetic mean ● Partition values : Quartiles , Deciles and Percentiles – examples for ungrouped and grouped data		Series: Chp 3)	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

	b) Moments: ● Concept of Moments, ● Raw moments, Central moments, ● Relation between raw and central moments.	3	Gupta, S.C. and kapoor V.k.(1987): fundamental of mathematical statistics	Black board, chalk and Duster

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	c) Measures of Skewness and Kurtosis: • Concept of Skewness and Kurtosis, • Measures based on moments, quartiles.	5	Gupta & Kapoor: Chp 3 and Schaum Series: Chp 5)	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

Unit 3	**Correlation:** ● Concept of correlation, Types and interpretation, ● **Measure of Correlation:** ➢ Scatter diagram and interpretation; ➢ Karl Pearson's coefficient of correlation (r): Definition, examples for ungrouped and grouped data, effect of shift of origin and change of scale, properties; ➢ Spearman's rank correlation coefficient: Definition, examples of with and without repetition. ➢ Concept of Multiple correlation.	8	Gupta & Kapoor: Chp 10 and Schaum Series: Chp 14 & 15	Black board, chalk and Duster

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	b) Regression: ● Concept of dependent (response) and independent (predictor) variables, ● Concept of regression, Types and prediction, ● Difference between correlation and regression, Relation between correlation and regression. ● Linear Regression - Definition, examples using least square method and regression coefficient, coefficient of determination, properties. ● Concept of Multiple regression and Logistic regression.	7	Gupta & Kapoor: Chp 10 and Schaum Series: Chp 14 & 15)	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture

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T
EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-VRUNDA VISHAL GHARAT DEPARTMENT: CS
CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

To have an understanding of Digital systems and operation of a digital computer.
To learn different architectures & organizations of memory systems, processor organization and control unit.
To understand the working principles of multiprocessor and parallel organization"s as advanced computer architecture

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Systems & Architecture (USCS101) UNIT I	**Fundamentals of Digital Logic**: Boolean algebra, Logic Gates, Simplification of Logic Circuits: Algebraic Simplification, Karnaugh Maps. Combinational Circuits: Adders, Mux, De-Mux, Sequential Circuits: FlipFlops (SR, JK & D), Counters: synchronous and asynchronous Counter **Computer System**: Comparison of Computer Organization & Architecture, Computer Components and Functions, Interconnection Structures. Bus Interconnections, Input / Output: I/O Module, Programmed I/O, Interrupt Driven I/O, Direct Memory Acces	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

Digital Systems & Architecture (USCS101) UNIT II	**Memory System Organization:** Classification and design parameters, Memory Hierarchy, Internal Memory: RAM, SRAM and DRAM, Interleaved and Associative Memory. Cache Memory: Design Principles, Memory mappings, Replacement Algorithms, Cache performance, Cache Coherence. Virtual Memory, External Memory: Magnetic Discs, Optical Memory, Flash Memories, RAID Levels Processor Organization: Instruction Formats, Instruction Sets, Addressing Modes, Addressing Modes Examples with Assembly Language [8085/8086 CPU**],** **Processor Organization,** Structure and Function. Register 15 Page 9 of 50 Organization, Basic Microprocessor operations: Data Transfer (Register / Memory) Operations, Arithmetic & Logical Operations, Instruction Cycle, Instruction Pipelining. Introduction to RISC and CISC Architecture, Instruction Level Parallelism and Superscalar Processors: Design Issues III Control Unit: Micro-Operations, Functional Requirements, Processo	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

Digital Systems & Architecture (USCS101) UNIT III	**Control Unit:** Micro-Operations, Functional Requirements, Processor Control, Hardwired Implementation, Micro-programmed Control. Fundamentals of Advanced **Computer Architecture:** Parallel Architecture: Classification of Parallel Systems, Flynn‟s Taxonomy, Array Processors, Clusters, and NUMA Computers. Multiprocessor Systems: Structure & Interconnection Networks, Multi-Core Computers: Introduction, Organization and Performance.	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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TEACHING PLAN (UNIT 1 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: FY B.SC COMPUTER SCIENCE SEMESTER: I MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Define a function, its domain, co domain, range and bijective functions, composite and inverse functions
- Check whether a given relation is equivalence or partial order relation.
- Represent the given relation using diagraph, adjacency matrix and arrow diagram.
- Solve a recurrence relation using various methods like back tracking , generating function method etc.
- Explain and solve the tower of Hanoi puzzle.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
DISCRETE MATHEMATICS Unit 1 Recurrence relations	➢ Functions, its domain, co domain and range ➢ Bijective, composite and inverse functions ➢ Relations: definition, examples and properties ➢ Equivalence & partial order relation, Hasse diagram ➢ Recurrence relation: definition, formulation & solving ➢ Tower of Hanoi puzzle	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 2 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: FY B.SC COMPUTER SCIENCE SEMESTER: I MONTH: October-November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of fundamental principle of counting, permutations and combinations.
- State and prove binomial theorem, Pascal's identity, Vandermonde's identity.
- Find the number of ways of doing a task using permutations and combinations.
- State and use Pigeonhole principle to solve the problems.
- Understand the concept of finite state automata and finite state machine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISCRETE MATHEMATICS (Unit 2) Counting principles, Languages and Finite state machines	➢ FPC , permutations, combinations ➢ Binomial theorem, Pascal's & Vandermonde's identity ➢ Sum & product rule, pigeonhole principle ➢ Inclusion exclusion principle ➢ Languages, regular expression and regular grammar ➢ FSM, FSA, Godel numbers, turing machines	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

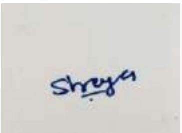
CLASS: FY B.SC COMPUTER SCIENCE SEMESTER: I MONTH: November-December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Define graph and its types, adjacency and incidence matrix.
- Draw adjacency and incidence matrix of the given graph and vice versa.
- Find out the shortest path of weighted graph using Warshall's algorithm.
- Traverse a tree using inorder, preorder and postorder algorithm.
- Draw a tree for algebraic expressions and vice versa.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISCRETE MATHEMATICS **(Unit 3)** Graphs & Trees	➢ Definition of Graphs and its types ➢ Diagraph, incidence and adjacency matrix ➢ Warshall's algorithm, BFS, DFS ➢ Trees : definition, types and properties ➢ Traversing binary trees ➢ Algorithms for searching, inserting and deleting in a binary tree	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS
CLASS: FYCS SEMESTER: SEM-1 MONTH: AUG-DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- Develop their soft skills and develop their personality together with their technical skills.
- Understand various issues in personal and Profession communication and learn to overcome them.
- Know about various aspects of soft skills and learn ways to develop personality
- Understand the importance and type of communication in personal and professional environment.
- Learn about Leadership, team building, decision making and stress management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
7 SOFT SKILLS DEVELOPMENT UNIT 1	**Introduction to Soft Skills** **Soft Skills: An Introduction –** Definition and Significance of Soft Skills; Process, Importance and Measurement of Soft Skill Development.	2	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Personality Development: Knowing Yourself, Positive Thinking, Johari's Window, Physical Fitness	2		
	Emotional Intelligence: Meaning and Definition, Need for Emotional Intelligence, Intelligence Quotient versus Emotional Intelligence Quotient, Components of Emotional Intelligence,	3		

	Competencies of Emotional Intelligence, Skills to Develop Emotional Intelligence			

	Positivity and Motivation: Developing Positive Thinking and Attitude; Driving out Negativity; Meaning and Theories of Motivation; Enhancing Motivation Levels	2		
	Etiquette and Mannerism: Introduction, Professional Etiquette, Technology Etiquette	2		
	Ethical Values: Ethics and Society, Theories of Ethics, Correlation between Values and Behavior, Nurturing Ethics, Importance of Work Ethics, Problems in the Absence of Work Ethics	3		
UNIT 2	**Basic Skills in Communication:** **Components of effective communication:** Communication process and handling them, Composing effective messages, Non – Verbal Communication: its importance and nuances: Facial Expression, Posture, Gesture, Eye contact, appearance (dress code).	3	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Communication Skills: Spoken English, Phonetics, Accent, Intonation	2		
	Employment Communication: Introduction, Resume, Curriculum Vitae, Scannable Resume, Developing an Impressive Resume, Formats of Resume, Job Application or Cover Letter	3		
	Job Interviews: Introduction, Importance of Resume, Definition of Interview, Background Information, Types of Interviews, Preparatory Steps for Job Interviews, Interview Skill Tips, Changes in the Interview Process, FAQ During Interviews	3		
	Group Discussion: Introduction, Ambience/Seating Arrangement for Group Discussion, Importance of Group Discussions, Difference	3		

	between Group Discussion, Panel Discussion and Debate, Traits,			

	Types of Group Discussions, topic based and Case based Group Discussion, Individual Traits			
UNIT 3	**Academic and Professional Skills:** **Professional Presentation:** Nature of Oral Presentation, planning a Presentation, Preparing the Presentation, Delivering the Presentation	3	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Creativity at Workplace: Introduction, Current Workplaces, Creativity, Motivation, Nurturing Hobbies at Work, The Six Thinking Hat Method.	3		
	Capacity Building: Learn, Unlearn and Relearn*:* Capacity Building, Elements of Capacity Building, Zones of Learning, Ideas for Learning, Strategies for Capacity Building	3		
	Leadership and Team Building*:* Leader and Leadership, Leadership Traits, Culture and Leadership, Leadership Styles and Trends, Team Building, Types of Teams,	3		
	Decision Making and Negotiation: Introduction to Decision Making, Steps for Decision Making, Decision Making Techniques, Negotiation Fundamentals, Negotiation Styles, Major Negotiation Concepts	3		
	Stress and Time Management*:* Stress, Sources of Stress, Ways to Cope with Stress	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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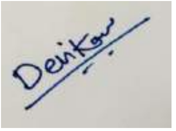

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT:CS

CLASS:SYCS SEMESTER: SEM-3 MONTH:JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
Have a knowledge and understanding of geometrical transformations and 3D viewing.
Have a knowledge and understanding of techniques for representing 3D geometrical objects Explain different Image enhancement techniques
Understand and review image transforms

PAPER,TITLE , UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 Data Structures UNIT 1	**Abstract Data Type**: Different Data Types, different types of data structures & their classifications, Introduction to ADT, Creating user-specific ADT **Linked Structures:** ADT for linked list, Advantages & Disadvantages, Singly Linked List-Traversing, Searching, Prepending and Removing Nodes, applications of linked list like polynomial equation	7	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD, PPT
	Stacks: Stack ADT for Stack, Advantages & Disadvantages, Applications of stack like balanced delimiter, prefix to postfix notation	4		

	Queues: Queue ADT, Advantages & Disadvantages, linked representations. Circular Queue operations, Dequeues, applications of queue like job scheduling queues	4		
UNIT 2	**Doubly Linked list**: ADT of doubly linked list, Advantages & Disadvantages, Insertion and deletion of nodes at various positions**.**	6	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD,PPT
	Trees: ADT for Tree Structure. Advantages & disadvantages, Binary TreeProperties, Implementation and Traversals, Binary Search Tree, Balanced BST, Threaded Binary Trees, AVL Trees, Applications of Tree like Huffman Coding,	4		
	Priority Queues & Heaps: Priority Queue, Priority Queue ADT, Advantages and Disadvantages, Applications, Heaps, types of heaps, Heapifying the element,	5		
UNIT 3	**Graph**: Introduction, Graph ADT, Advantages and Disadvantages, Graph Representation using adjacency matrix and adjacency list, Graph operations like insertion and deletion of nodes, Graph Traversals using BFS & DFS, Applications of Graphs like shortest path algorithms,	8	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD,PPT

	Hashing: Hash Table ADT, Advantages & Disadvantages, Concept of hashing, hash table, hash functions, collision, collision avoidance techniques, Applications of hashing	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK DEPARTMENT:IT SUBJECT:OS CLASS: SYCS SEM:III

MONTH:JUNE-SEPT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

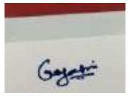
To provide a understanding of operating system, its structures and functioning

Develop and master understanding of algorithms used by operating systems for various purposes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
303 UNIT I	**Introduction and Operating-Systems Structures**: Definition of Operating system, Operating System's role, **Operating-System Operations**, Functions of Operating System, Computing Environments Operating-System Structures: Operating-System Services, User and Operating-System Interface, System Calls, Types of System Calls, Operating-System Structure **Processes:** Process Concept, Process Scheduling, Operations on Processes, Interprocess Communication **Threads**: Overview, Multicore Programming, Multithreading Models	18	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point

303 UNIT II	**Process Synchronization**: General structure of a typical process, race condition, The Critical-Section Problem, Peterson's Solution, Synchronization Hardware, Mutex Locks, Semaphores, Classic Problems of Synchronization, Monitors **CPU Scheduling**: Basic Concepts, Scheduling Criteria, Scheduling Algorithms (FCFS, SJF, SRTF, Priority, RR, Multilevel Queue Scheduling, Multilevel Feedback Queue Scheduling), Thread Scheduling **Deadlocks:** System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock	15	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point
303 UNIT III	**Main Memory**: Background, Logical address space, Physical address space, MMU, Swapping, Contiguous Memory Allocation, Segmentation, Paging, Structure of the Page Table **Virtual Memory:** Background, Demand Paging, Copy-on- Write, Page Replacement, Allocation of Frames, Thrashing **Mass-Storage Structure**: Overview, Disk Structure, Disk Scheduling, Disk Management **File-System Interface**: File Concept, Access Methods, Directory and Disk Structure, File-System Mounting, File Sharing **File-System Implementation**: File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management	15	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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Teaching plan
sycs sem 3
2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar DEPARTMENT: computer science

CLASS: S.Y.B.Sc.(CS)

SEMESTER: June to September
ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S:

The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS302 **Linear Algebra**	Field: • Introduction to complex number,numbers in python,Abstracting over field • playing with GF(2),	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board, chalk and duster

Unit 1			Learning, 4th Edition, 2007	
	Vectors: ● Vectors are functions, ● Vector addition and scalar multiplication ● Combining vector addition and scalar multiplication ● Geometry of sets of vectors	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	● Dictionary based representation of vectors ● Dot product ● Solving triangular system of linear equations ● Support vector Machine-Introduction, Mechanism	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	The Vector Space : ● Homogeneous and no- homogeneous equation	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	● Linear combination and linear span	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra** **Unit 2**	Matrix: ● Matrices as vectors, Column space and row space, transpose ● Matrix -vector and vector-matrix multiplication in terms of linear combination ● Matrix -vector and vector-matrix multiplication in terms of dot-product	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	● Null space, computing Sparse matrix, vector product ● Linear function ● Inner product and outer product ● From function inverse to matrix inverse	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	Basis: ● Coordinate system,Two greedy algorithm for finding set of generators ● Minimum spanning forest and GF(2) ● Linear dependence and independence	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	Basis: ● Basis, unique representation,change of basis ● Computational problems involving finding a basis	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board,chalk and duster

			Learning, 4th Edition, 2007	
	Dimensions: ● Dimension and rank, ● Direct sum ● Dimension and linear function ● The annihilator Gaussian elimination: ● Row echelon form, Gaussian elimination over GF(2) ● Solving matrix - vector equation using Gaussian distribution ● Finding basis for null space Factoring integers	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENC E/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302				
Linear Algebra **<u>Unit 3</u>**	Inner product: ● The inner product for vectors over field ● Orthogonality	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board, chalk and duster

			Learning, 4th Edition, 2007	
	Orthogonalisation: ● Projection orthogonal to multiple vectors ● Projecting orthogonal to mutually orthogonal vectors ● Finding an orthogonal set of generators ● Orthogonal complement	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	Eigen vectors: ● Modeling discrete dynamic processes ● Diagonalization of the Fibonacci matrix ● Finding Eigen values and Eigen vectors ● Coordinate representation in terms of Eigen vectors	5	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	● The internet worm ● Markow chains ● Modeling a web surfer-page rank	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: CS CLASS:

SYCS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
- To understand the concepts of Hyper Text Markup Language and Cascading Style Sheets.
- To learn JavaScript for creating dynamic websites.
- To learn various operations performed on data among web applications using XML
- To learn Server-Side Programming using PHP

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
WEB TECHNOLOGIE S (USCS306) Unit I	**HTML5:** Fundamental Elements of HTML, Formatting Text in HTML, Organizing Text in HTML, Links and URLs in HTML, Tables in HTML, Images on a Web Page, Image Formats, Image Maps, Colours, FORMs in HTML, Interactive Elements, Working with Multimedia - Audio and Video File Formats, HTML elements for inserting Audio / Video on a web page	8	HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press	PPT, Black Board and Chalk
	CSS: Understanding the Syntax of CSS, CSS Selectors, Inserting CSS in an HTML Document, CSS properties to work with background of a Page, CSS properties to work with Fonts and Text Styles, CSS properties for positioning an element	7		
WEB TECHNOLOGIE S (USCS306)	**JavaScript:** Using JavaScript in an HTML Document, Programming Fundamentals of JavaScript – Variables, Operators, Control Flow Statements, Popup Boxes, Functions – Defining and Invoking a Function, Defining Function	6	HTML 5 Black Book, Covers CSS 3, JavaScript,	PPT, Black Board and Chalk

Unit II	arguments, Defining a Return Statement, Calling Functions with Timer		XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press	
	JavaScript Objects - String, RegExp, Math, Date, Browser Objects - Window, Navigator, History, Location, Document, Cookies, Document Object Model, Form Validation using JavaScript	2		PPT, Black Board and Chalk
	XML: Comparing XML with HTML, Advantages and Disadvantages of XML, Structure of an XML Document, XML Entity References, DTD, XSLT: XSLT Elements and Attributes - xsl:template, xsl:apply-templates, xsl:import, xsl:call-template, xsl:include, xsl:element, xsl:attribute, xsl:attribute-set, xsl:value-of	7		PPT, Black Board and Chalk
WEB TECHNOLOGIES (USCS306) Unit III	**AJAX**: AJAX Web Application Model, How AJAX Works, XMLHttpRequest Object – Properties and Methods, Handling asynchronous requests using AJAX	4	HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press, PHP: A Beginners Guide, Vikram Vaswani, TMH	PPT, Black Board and Chalk
	PHP: Variables and Operators, Program Flow, Arrays, Working with Files and Directories, Working with Databases, Working with Cookies, Sessions and Headers	7		PPT, Wamp Server, Black Board and Chalk
	Introduction to jQuery: Fundamentals, Selectors, methods to access HTML attributes, methods for traversing, manipulators, events, effects	4		PPT, Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(CS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understand the fundamentals of content creation for Blog, Website etc.
- Acquire the ability to write and edit in a variety of styles and procedures
- To develop the creative abilities.
- To acquire essential language skills for editors.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS3071 Paper 7 **Creative Content Writing** **UNIT I**	**Basics of Content writing:** Introduction to Content Writing, Learning Tone in Writing and Its Types, Comprehending style in writing and its Types, Common Grammatical Errors.	5	Content Writing Handbook, Author:Kounal Gupta, 2020, Henry Harvin. Feldar, Lynda. Writing for the Web: Creating Compelling Web Content Using Words, Pictures, and Sound. New Riders, CA, USA, 2011	Microsoft Powerpoint Presentation
	Best Practices for Writing for the Web: Making our story Elegant, Professional, Write with an Attitude, Keep Verbs Active, List Items, Chunk Information, Title and Subtitle, Organize for Your Audience.	5		
	Things Marketers Write: The Ideal Length for Blog Posts, Podcast, Facebook Posts, Tweets, and Other Marketing Content.	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS3071 Paper 7 **Creative Content Writing** **UNIT II**	**Social Media Writing:** Writing for Twitter, writing with Hashtags, Writing Social Media with Humor, writing for Facebook, writing for LinkedIn, Writing Your LinkedIn Profile, writing for Email, Writing Landing Pages, Writing Headlines, writing a Home Page, Writing the About Us Page, Writing Better Blog Posts, Writing Annual Reports.	7	Content Writing Handbook, Author:Kounal Gupta, 2020, Henry Harvin. Feldar, Lynda. Writing for the Web: Creating Compelling Web Content Using Words, Pictures, and Sound. New Riders, CA, USA, 2011	Microsoft Powerpoint Presentation
	Infographics: Visual Communication- What Are Infographics?, The Science of Visualization, Creating Infographics- Purpose, The Art of Observation, Processing Your Ideas, Designing Your Infographics, Publishing Your Infographics.	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SONALI DATTATRAY SALVANIKAR DEPARTMENT: IT-CS

CLASS:SYCS SEMESTER: SEM-III MONTH: JULLY- SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Master concepts of stored procedure and triggers and its use.
- Learn about using PL/SQL for data management and understand concepts.
- Implementations of transaction management and crash recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-4 DBMS, UNIT-1	**Stored Procedures:** Types and benefits of stored procedures, creating stored procedures, executing stored procedures, altering stored procedures, viewing stored procedures.	4	SQL,PL/SQL - The Programming language of Oracle by Ivan Bayross ,	PPT, GoogleMeet, Jamboard , slido, SQL command line ,Google form.
	Triggers: Concept of triggers, Implementing triggers – creating triggers, Insert, delete, and update triggers, nested triggers, viewing, deleting and modifying triggers, and enforcing data integrity through triggers.	4		
	Sequences: creating sequences, referencing, altering and dropping a sequence.	2		

	File Organization and Indexing: Cluster, Primary and secondary indexing, Index data structure: hash and Tree based indexing	3	Database Management Systems by Ramakrishnam, Gehrke.	
	Comparison of file organization: cost model, Heap files, sorted files, clustered files. Creating, dropping and maintaining indexes.	2		
UNIT-2	**Fundamentals of PL/SQL:** Defining variables and constants, PL/SQL expressions and comparisons: Logical Operators, Boolean Expressions, CASE Expressions Handling.	3	SQL,PL/SQL - The Programming language of Oracle by Ivan Bayross	PPT, GoogleMeet, Jamboard , slido, SQL command line , Google form..
	Null Values in Comparisons and Conditional Statements, PL/SQL Datatypes: Number Types, Character Types, Boolean Type, Datetime and Interval Types.	3		
	Overview of PL/SQL Control Structures: Conditional Control: IF and CASE Statements, IF-THEN Statement, IF-THEN-ELSE Statement,	5		
	CASE Statement, Iterative Control: LOOP and EXIT Statements, WHILE-LOOP, FOR-LOOP, Sequential Control: GOTO and NULL Statements	4		
UNIT 3	**Transaction Management:** ACID Properties, Serializability, Two-phase Commit Protocol, Concurrency Control, Lock Management	3	SQL,PL/SQL - The Programming	
	Lost Update Problem, Inconsistent Read Problem , Read-Write Locks, Deadlocks Handling, Two Phase Locking protocol	4		

	DCL Statements: Defining a transaction, Making Changes Permanent with COMMIT, Undoing Changes with ROLLBACK, Undoing Partial Changes with SAVEPOINT and ROLLBACK.	2	language of Oracle by Ivan Bayross, Database Management Systems by Ramakrishnam, Gehrke	PPT, GoogleMeet, Jamboard , slido, SQL command line ,Google form.
	Crash Recovery: ARIES algorithm. The log based recovery, recovery related structures like transaction and dirty page table	4		
	Write-ahead log protocol, check points, recovery from a system crash, Redo and Undo phases.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

Sonali

Jagruti

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. SAMPADA DESHMUKH DEPARTMENT: INFORMATION TECHNOLOGY CLASS: T.Y.C.S.

SEMESTER: V MONTH: JUNE - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the concepts of basic computer security, Network Security and Cryptography.
- Understand different techniques of cryptography.
- Learn security threats and vulnerabilities and identify security problems.
- Identify threats of Network Security and apply protocol for the network.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS504 Unit 1, **Information and Network Security**	Security Trends, The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Classical Encryption Techniques: Symmetric Cipher Model, Substitution Techniques . Transposition Techniques, Steganography, Block Cipher Principles, The Data Encryption Standard, The Strength of DES	04	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk

	Multiple encryption Triple DES Advanced Encryption Algorithm	02	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk
	Principles of public key cryptosystem concept and working Modes of operation Block cipher	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Stream cipher RSA Algorithm concept RSA algorithm problem solving	03	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk
USCS504, Unit 2, **Information and Network Security**	**Key Management:** Public-Key Cryptosystems Key Management Diffie-Hellman Key Exchange	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Message Authentication and Hash Functions: Authentication Requirements, Authentication Functions, Message Authentication Codes Hash Functions, Security of Hash Functions and Macs,	04	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk

	HMAC Secure Hash Algorithm	04	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk

	Digital Signatures and Authentication: Digital Signatures, Authentication Protocols			
	Digital Signature Standard **Authentication Applications:** Kerberos, X.509 Authentication, Public-Key Infrastructure	04	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
USCS504, Unit 3, **Information and Network Security**	**Electronic Mail Security:** Pretty Good Privacy, S/MIME **IP Security:** Overview, Architecture, Authentication Header, Encapsulating Security Payload, Combining Security Associations, Key Management	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Web Security: Web Security Considerations, Secure Socket Layer and Transport Layer Security, Secure Electronic Transaction **Intrusion:** Intruders, Intrusion Techniques, Intrusion Detection	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Malicious Software: Viruses and Related Threats, Virus Countermeasures, DDOS **Firewalls:** Firewall Design Principles, Types of Firewalls	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Sampada

Jagruti

T

EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: TYCS

SEMESTER: V MONTH: July-Sept ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

•To understand the details of web services technologies like SOAP, WSDL, and UDDI. To learn how to implement and deploy web service client and server.

•To understand the design principles and application of SOAP and REST based web services (JAX-Ws and JAX-RS).

•To understand WCF service. To design secure web services and QoS of Web Services

The learners will be able to:

•Emphasis on SOAP based web services and associated standards such as WSDL. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Web Services Elective-II USCS506 Unit 1	**Web services basics:** What Are Web Services? Types of Web Services Distributed computing infrastructure, overview of XML, SOAP, Building Web Services with JAX-WS, Registering and Discovering Web Services, Service Oriented Architecture, Web Services Development Life Cycle, Developing and consuming simple Web Services across platform	15	Web Services: Principles and Technology,Michael P. Papazoglou, Pearson Education Limited, 2008	Laptop,ppt

Web Services Elective-II USCS506 Unit 2	**The REST Architectural style:** Introducing HTTP, The core architectural elements of a RESTful system, Description and discovery of RESTful web services, Java tools and frameworks for building RESTful web services, JSON message format and tools and frameworks around JSON, Build RESTful web services with JAX-RS APIs, The Description and Discovery of RESTful Web Services, Design guidelines for building RESTful web services, Secure RESTful web services.	15	RESTful Java Web Services, Jobinesh Purushothaman, PACKT Publishing,2 nd Edition, 2015	Laptop,ppt
Web Services Elective-II USCS506 Unit 3	**Developing Service-Oriented Applications with WCF :** What Is Windows Communication Foundation, Fundamental Windows Communication Foundation Concepts, Windows Communication Foundation Architecture, WCF and .NET Framework Client Profile, Basic WCF Programming, WCF Feature Details. Web Service QoS	15	Developing Service-Oriented Applications with WCF, Microsoft, 2017 https://docs.microsoft.com/en-us/dotnet/framework/wcf/index	Laptop,ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **TYBSCCS** SEMESTER:**V**

MONTH: **JUNE-OCT** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

understand computer Graphics programming using Directx or Opengl. Along with the VR and AR they should also aware of GPU, newer technologies and programming using most important API for windows.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
USCS507 **Game Programming** Unit-1	**Cartesian Coordinate system:** The Cartesian XY-plane, Function Graphs, Geometric Shapes, Polygonal Shapes, Areas of Shapes, Theorem of Pythagoras in 2D, Coordinates, Theorem of Pythagoras in 3D, 3D Polygons, Euler's Rule	04	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
	Vectors: Vector Manipulation, multiplying a Vector by a Scalar, Vector Addition and Subtraction, Position Vectors, Unit Vectors, Cartesian Vectors, Vector Multiplication, Scalar Product, Example of the Dot Product, The Dot Product in Lighting Calculations, The Dot Product in Back-Face Detection, The	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard

	Vector Product, The Right-Hand Rule, deriving			

	a Unit Normal Vector for a Triangle Areas, Calculating 2D Areas			
	Transformations: 2D Transformations, Matrices, Homogeneous Coordinates, 3D Transformations, Change of Axes, Direction Cosines, rotating a Point about an Arbitrary Axis, Transforming Vectors, Determinants, Perspective Projection, Interpolation	06	Computer Graphics, C Version, Donald Hern and Pauline Baker, Pearson Education, 2nd Edition, 1997	Laptop,power point,blackboard
	DirectX: Understanding GPU and GPU architectures. How they are different from CPU Architectures? Understanding how to solve by GPU?	02	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard
USCS507 **Game Programming** Unit-2	**Introduction To DirectX 11:** COM, Textures and Resources Formats, The swap chain and Page flipping, Depth Buffering, Texture Resource Views, Multisampling Theory and MS in Direct3D, Feature Levels	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard
	Direct3D 11 Rendering Pipeline: Overview, Input Assembler Stage (IA), Vertex Shader Stage (VS), The Tessellation Stage (TS), Geometry Shader Stage (GS), Pixel Shader Stage (PS), Output merger Stage (OM) Understanding Meshes or Objects, Texturing, Lighting, Blending.	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard

	Trigonometry: The Trigonometric Ratios, Inverse Trigonometric Ratios, Trigonometric Relationships, The Sine Rule, The Cosine	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard

	Rule, Compound Angles, Perimeter Relationships			
	Interpolation: Linear Interpolant, Non-Linear Interpolation, Trigonometric Interpolation, Cubic Interpolation, Interpolating Vectors, Interpolating Quaternions	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
	Curves: Circle, Bezier, B-Splines **Analytic Geometry:** Review of Geometry, 2D Analytic Geometry, Intersection Points, Point in Triangle, and Intersection of circle with straight line.	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
USCS507 **Game Programming** Unit-3	**Introduction to Rendering Engines:** Understanding the current market Rendering Engines. Understanding AR, VR and MR.Depth Mappers, Mobile Phones, Smart Glasses, HMD’s **Unity Engine: Multi-platform publishing, VR + AR:** Introduction and working in Unity, 2D, Graphics, Physics, Scripting, Animation, Timeline, Multiplayer and Networking, UI, Navigation and Pathfinding, XR, Publishing.	10	https://docs.unity3d.com/Manual/index.html	Laptop,power point,blackboard
	Scripting: Scripting Overview, Scripting Tools and Event Overview **XR:** VR, AR, MR, Conceptual Differences. SDK, Devices	05	https://docs.unity3d.com/Manual/index.html	Laptop,power point,blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

T
EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **T.Y.B.Sc.(CS)**

SEMESTER: **V** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To get a clear understanding of AI and different search algorithms used for solving problems.
- To get acquainted with different learning algorithms and models used in machine learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT I**	**What Is AI:** Foundations, History and State of the Art of AI.	4	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Intelligent Agents: Agents and Environments, Nature of Environments, Structure of Agents.	3		
	Problem Solving by searching: Problem-Solving Agents, Example Problems, Searching for Solutions, Uninformed Search Strategies.	4		
	Informed (Heuristic) Search Strategies, Heuristic Functions.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT II**	**Learning from Examples:** Forms of Learning, Supervised Learning, Learning Decision Trees	3	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Evaluating and Choosing the Best Hypothesis, Theory of Learning	3		
	Regression and Classification with Linear Models ,Artificial Neural Networks	4		
	Nonparametric Models, Support Vector Machines, Ensemble Learning, Practical Machine Learning	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT III**	**Learning probabilistic models:** Statistical Learning, Learning with Complete Data.	4	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Learning with Hidden Variables: The EM Algorithm	3		
	Reinforcement learning: Passive Reinforcement Learning, Active Reinforcement Learning,	4		
	Generalization in Reinforcement Learning, Policy Search, Applications of Reinforcement Learning.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jagruti

Jagruti

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Design & Analysis of Algorithms DEPARTMENT: Information Technology.**

CLASS: F.Y.B.Sc.(CS) **SEMESTER: II** **MONTH: Dec to April** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

• To make students understand the basic principles of algorithm design

• To give idea to students about the theoretical background of the basic data structures

• To familiarize the students with fundamental problem-solving strategies like searching, sorting, selection, recursion and help them to evaluate efficiencies of various algorithms.

• To teach students the important algorithm design paradigms and how they can be used to solve various real world problems.

The learners will be able to :

• Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
• Students should be able to appreciate the use of various data structures as per need
• To select, decide and apply appropriate design principle by understanding the requirements of any real life problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS201 Design & Analysis of Algorithms UNIT-2	Recursion - What is recursion, Recursion vs Iteration, recursion applications like Factorial of a number, Fibonacci series & their comparative analysis with respect to iterative version, Tower of Hanoi problem Basic Sorting Techniques - Bubble, Selection and Insertion Sort & their comparative analysis Searching Techniques - Linear Search and its types, Binary Search and their comparative analysis Selection Techniques - Selection by Sorting, Partition-	15	1. "Data Structure and Algorithm Using Python", Rance D. Necaise, Wiley India Edition, 2016. 2. "Data Structures and Algorithms Made Easy",	Black Board, Projector, Google Meet PPT

	based Selection Algorithm, Finding the Kth Smallest Elements in Sorted Order & their comparative analysis String Algorithms - Pattern matching in strings, Brute Force Method & their comparative analysis		NarasimhaKarumanchi, CareerMonk Publications, 2016. 3. "Introduction to Algorithms", Thomas H. Cormen, 3rd Edition, PHI.	
USCS201 **Design & Analysis of Algorithms** **UNIT-3**	Algorithm Design Techniques - Introduction to various types of classifications/design criteria and design techniques Greedy Technique - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - file merging problem Divide-n-Conquer - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - merge sort, Strassen's Matrix Multiplication Dynamic Programming - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - Fibonacci series, Factorial of a number, Longest Common subsequence Backtracking Programming - Concept, Advantages & Disadvantages, Applications, Implementation using problems like N-Queen Problem	15	1. "Data Structure and Algorithm Using Python", Rance D. Necaise, Wiley India Edition, 2016. 2. "Data Structures and Algorithms Made Easy", NarasimhaKarumanchi, CareerMonk Publications, 2016. 3. "Introduction to Algorithms", Thomas H. Cormen, 3rd Edition, PHI.	Black Board, Projector, Google Meet PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-Ms.SONALI DATTATRAY SALVANIKAR DEPARTMENT: CS
CLASS:FYCS-A SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVES:

- After successful completion of this course, To appreciate the importance of database design.
- Analyze database requirements and determine the entities involved in the system and their relationship to one another.
- Write simple queries to MySQL related to String, Maths and Date Functions.
- Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- Understand the normalization and its role in the database design process.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Systems (USCS204)	**Introduction to DBMS** – Database, DBMS – Definition, Overview of DBMS, Advantages of DBMS, Levels of abstraction, Data independence, DBMS Architecture	2	1.“Fundamentals of Database System”, Elmasri Ramez, Navathe Shamkant, Pearson Education,	PPT , Projector, Google Meet Blackboard & Chalk
	Data models - Client/Server Architecture, Object Based Logical Model, Record Based Logical Model (relational, hierarchical, network)	2		

UNIT I	**Entity Relationship Model -** Entities, attributes, entity sets, relations, relationship sets, Additional constraints (key constraints, participation constraints, weak entities, aggregation / generalization, Conceptual	3	Seventh edition, 2017	Black board and chalk.

	Design using ER (entities VS attributes, Entity Vs relationship, binary Vs ternary, constraints beyond ER)		2 “Database Management Systems”, Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	
	ER to Table- Entity to Table, Relationship to tables with and without key constraints.	2		
	DDL Statements - Creating Databases, Using Databases, datatypes, Creating Tables (with integrity constraints – primary key, default, check, not null), Altering Tables, Renaming Tables, Dropping Tables, Truncating Tables	3		
	DML Statements – Viewing the structure of a table insert, update, delete, Select all columns, specific columns, unique records, conditional select, in clause, between clause, limit, aggregate functions (count, min, max, avg, sum), group by clause, having clause.	3	3. “Murach's MySQL”, Joel Murach, 3rd Edition, 3rd Edition, 2019	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

Sonali

Jagruti

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-VRUNDA VISHAL GHARAT DEPARTMENT: CS

CLASS:FYCS SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- After successful completion of this course, students would be able to Work with numeric, character and textual data and arrays.
- Understand the importance of OOP approach over procedural language.
- Understand how to model classes and relationships using UML.
- Apply the concepts of OOPS like encapsulation, inheritance and polymorphism.
- Handle basic file operations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Introduction to OOPs using C++ (USCS203) UNIT I	**Introduction to Programming Concepts**: Object oriented programming paradigm, basic concepts of object oriented programming, benefits of object oriented programming, object oriented languages, applications of object oriented programming. Tokens-keywords, identifiers, constants-integer, real, character and string constants, backslash constants, features of C++ and its basic structure, simple C++ program without class, compiling and running C++program. **Data Types, Data Input Output and Operators:** Basic data types, variables, rules for naming variables, programming constants, the type cast operator, implicit and explicit type casting, cout and cin statements, operators, precedence of operators. **Decision Making, Loops, Arrays and Strings:** Conditional statements-if, if...else, switch loops- while, do...while, for, types of arrays and string and string manipulations	15	Object Oriented Programming with C++, Balagurusamy E., 8th Edition, McGraw Hill Education India. 2. UML & C++: A Practical Guide to Object Oriented Development, Lee/Tepfenhart, Pearson Education, 2nd Edition201	Black board and chalk

	Unified Modeling Language (UML): Introduction to UML & class diagrams. **Classes, Abstraction & Encapsulation**: Classes and objects, Dot Operator, data members, member functions, passing data to functions, scope and visibility of variables in function.			

Introduction to OOPs using C++ (USCS203) UNIT II	**Constructors and Destructors**: Default constructor, parameterized constructor, copy constructor, private constructor, destructors. **Working with objects**: Accessor - mutator methods, static data and static function, access specifiers, array of objects. **Polymorphism** - Binding-static binding & overloading, constructor overloading function overloading, operator overloading, overloading unary and binary operators. **Modelling Relationships in Class Diagrams:** Association, AggregationComposition and examples covering these principle	15	Object Oriented Programming with C++, Balagurusamy E., 8th Edition, McGraw Hill Education India	Black board and chalk
Introduction to OOPs using C++ (USCS203) UNIT III	**Inheritance**: Defining base class and its derived class, access specifiers, types of inheritance-single, multiple, hierarchical, multilevel, hybrid inheritance, friend function and friend class, constructors in derived classes. **Modelling Relationships**: Generalization-Specialization and examples covering these principles Run time Polymorphism - Dynamic Binding, Function overriding, virtual function, pure virtual function, virtual base class, abstract class. **Pointers**: Introduction to pointers, * and & operators, assigning addresses to pointer variables, accessing values using pointers, pointers to objects & this pointer, pointers to derived classes **File Handling:** File Stream classes, opening and closing file-file opening modes, text file handling, binary file handling.	15	UML & C++: A Practical Guide to Object Oriented Development, Lee/Tepfenhart, Pearson Education, 2nd Edition201	Black board and chalk

	Applying OOP to solve real life applications: To cover case studies like library management, order management etc. to design classes covering all relationships			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

T
EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS
CLASS: FYCS SEMESTER: II MONTH: JANUARY TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
- Students should be able to appreciate the use of various data structures as per need.
- To select, decide and apply appropriate design principle by understanding the requirements of any real-life problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD
Design & Analysis of Algorithms (USCS201) Unit I	**Introduction to algorithms** - What is algorithm, analysis of algorithm, Types of complexity, Running time analysis, How to Compare Algorithms, Rate of Growth, Types of Analysis, Asymptotic Notation, Big-O Notation, Omega-Ω Notation, Theta-Θ Notation, Asymptotic Analysis, Performance characteristics of algorithms, Estimating running time / number of steps of executions on paper, Idea of Computability	08	Data Structure and algorithm Using Python, Rance D. Necaise, 2016 Wiley India Edition	PPT, Chalk and board
	Introduction to Data Structures - What is data structure, types, Introduction to Array(1-d & 2-d), Stack and List data structures, operations on these data structures, advantages disadvantages and applications of these data structures like solving linear equations, Polynomial Representation, Infix-to-Postfix conversion	07		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 2 2022-23

lTEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 2

MONTH: February to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- Calculate probability, conditional probability and independence.
- Apply the given discrete and continuous distributions whenever necessary.
- Define null hypothesis, alternative hypothesis, level of significance, test statistic and pvalue.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- Apply non-parametric test whenever necessary.
- Conduct and interpret one-way and two-way ANOVA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURE S ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods <u>**Unit 1**</u>	**Probability:** ➢ Random experiment, sample space, events types and ➢ operations of events, Probability definition: classical, axiomatic, ➢ Elementary Theorems of probability (without proof). ➢ Conditional probability, „Bayes" theorem, independence, Examples on Probability.	**8**	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and	Black board, chalk and duster

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Arts VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 2 2022-23

			Sons, New Delhi	

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

	Random Variables: ➢ Concept and definition of a discrete random variable and continuous random variable. ➢ Probability mass function, Probability density function and cumulative distribution function of discrete and continuous random variable, ➢ Properties of cumulative distribution function.	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

Unit 2	**Mathematical Expectation and Variance:** ➢ Expectation of a function,Variance and S.D of a random variable, ➢ properties.	6	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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	Standard Probability distributions: ➢ Introduction,properties, ➢ Examples and applications of each of the following distributions: Binomial distribution,Normal distribution,Chi-square distribution, t distribution, F distribution	9	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

Unit 3	**Hypothesis testing:** ➢ One sided,Two sided hypothesis, critical region, p-value, ➢ tests based on t, Normal and F, confidence intervals**.**	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

	Analysis of Variance: One-way, two-way analysis of variance. .	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster
	Non-parametric tests: ➢ Need of non-parametric tests, ➢ Sign test,Wilicoxon's signed rank test, run test, Kruskal-Walistests, Chisquare test	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand concept of derivation and application how to apply.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT I DERIVATIVES AND ITS APPLICATIONS	DERIVATIVES AND ITS APPLICATIONS: Review of Basic Concepts: Functions, limit of a function, continuity of a function, derivative function.	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Derivative In Graphing And Applications: Increase, Decrease, Concavity, Relative Extreme; Graphing Polynomials	5		
	Rational Functions, Cusps and Vertical Tangents. Absolute Maxima and Minima	4		
	Applied Maximum and Minimum Problems, Newton's Method.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the application of integration and how to implement in different field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205, UNIT II INTEGRATION AND ITS APPLICATIONS	INTEGRATION AND ITS APPLICATIONS: Integration: An Overview of the Area Problem, Indefinite Integral	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Definition of Area as a Limit; Sigma Notation, Definite Integral, Evaluating	3		
	Definite Integrals by Substitution, Numerical Integration: Simpson's Rule.	3		
	Applications of Integration: Area between two curves, Length of a plane curve.	3		
	Mathematical Modeling with Differential Equations: Modeling with Differential Equations, Separation of Variables, Slope Fields, Euler's Method, First-Order Differential Equations and Applications.)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT III PARTIAL DERIVATIVES AND ITSAPPLICATIONS:	Functions of Several Variables: Functions of two or more variables, Limits and Continuity of functions of two or three variables	4	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Partial Derivatives: Partial Derivatives, Differentiability, Differentials, and Local Linearity, Chain Rule	3		
	Implicit Differentiation, Directional Derivatives and Gradients	4		
	Applications of Partial Derivatives: Tangent Planes and Normal Vectors, Maxima and Minima of Functions of Two Variables.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jagruti

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: COMPUTER SCIENCE CLASS: FYCS

SEMESTER: II MONTH: FEB-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand how to read/write to files using python.
- Catch their own errors that happen during execution of programs.
- Get introductions to the concept of pattern matching.
- Be familiar with the concepts of GUI controls and designing GUI applications.
- Connect to the database to move the data to/from the application.
- Know how to connect to computers, read from URL and send email.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS202, Unit 1, Advanced Python Programming	Working with files: Files, opening and closing a file, working with text files containing strings, knowing whether a file exists or not, working with binary files, the „with" statement, the seek() and tell() methods, random accessing of binary files, zipping and unzipping files, working with directories, running other programs from python program	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Regular expressions: What is a regular expression?, sequence characters in regular expressions, quantifiers in regular expressions, special characters in regular expressions, using regular expression on files, retrieving information from an html file, Threads in python: Difference between process and thread,	05	Paul Gries, Programming: An Introduction to Computer Science Using	PowerPoint Presentation

	types of threads, benefits of threads, creating threads, single		Python 3	

	tasking and multitasking, thread synchronization, deadlock in threads, daemon threads			
	Date and time in python: Date and time now, combining date and time, 15 Page 33 of 50 formatting dates and times, finding durations using "time delta", comparing two dates, sorting dates, stopping execution temporarily, knowing the time taken by a program, calendar module	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
USCS202, Unit 2, Advanced Python Programming	Database in python: Using SQL with python, retrieving rows from a table, inserting rows into a table, deleting rows from a table, updating rows in a table, creating database tables through python, Exception handling in databases.	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Exceptions in python: Errors in a python program, compile & run-time errors, logical error, exceptions-exception handling, types of exceptions, the except block, the assert statement, user-defined exceptions, logging the exceptions Networking: Protocols,server-client architecture, tcp/ip and udp communication	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Graphical user interface: Creating a GUI in python, Widget classes, Working with Fonts and Colours, working with Frames, Layout manager, Event handling	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation

USCS202, Unit 3, Advanced	OOPs in python: Features of Object Oriented Programming system (oops)- classes and objects, encapsulation, abstraction, inheritance, polymorphism, constructors and destructors Classes	05	Paul Gries, Programming: An Introduction	PowerPoint Presentation

Python Programming	and objects: Creating a class, the self-variable, types of variables, namespaces, types of methods, instance methods, class methods, static methods, passing members of one class to another class, inner classes		to Computer Science Using Python 3	
	Inheritance and polymorphism: Inheritance in python, types of inheritance- single inheritance, multilevel inheritance, hierarchical inheritance, multiple inheritance, constructors in inheritance, overriding super class constructors and methods, the super() method, method resolution order (mro), polymorphism, duck typing, operator overloading, method overloading, method overriding,	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Abstract classes and interfaces: Abstract class, abstract method,interfaces in python, abstract classes vs. Interfaces	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: CS
CLASS: FYCS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To learn how to design object-oriented programs with Python classes
- To learn about reading, writing and implementing other operation on files in Python.
- To implement threading concept and multithreading on Python.
- To design GUI Programs and implement database interaction using Python.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Python Programming (USCS202) Unit I	**Working with files:** Files, opening and closing a file, working with textfiles containing strings, knowing whether a file exists or not, working with binary files, the „with" statement, the seek() and tell() methods, random accessing of binary files, zipping and unzipping files, working with directories, running other programs from python program	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018	Black board and chalk
	Regular expressions: What is a regular expression?, sequence characters in regular expressions, quantifiers in regular expressions, special characters in regular expressions, using regular expression on files, retrieving information from an html file,	04		
	Threads in python: Difference between process and thread, types of threads, benefits of threads, creating threads, single tasking and multitasking, thread synchronization, deadlock in threads, daemon threads	04		

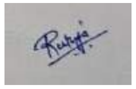
	Date and time in python: Date and time now, combining date and time formatting dates and times, finding durations using "time delta", comparing two dates, sorting dates, stopping execution	03		

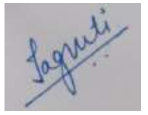
	temporarily, knowing the time taken by a program, calendar module			

Advanced Python Programming (USCS202) Unit II	**Database in python:** Using SQL with python, retrieving rows from a table, inserting rows into a table, deleting rows from a table, updating rows in a table, creating database tables through python, Exception handling in databases.	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018 ,	Black board and chalk
	Exceptions in python: Errors in a python program, compile & run-time errors, logical error, exceptions-exception handling, types of exceptions, the except block, the assert statement, user-defined exceptions, logging the exceptions	04		
	Networking: Protocols,server-client architecture, tcp/ip and udp communication	03		
	Graphical user interface: Creating a GUI in python, Widget classes, Working with Fonts and Colours, working with Frames, Layout manager, Event handling	04		
Advanced Python Programming (USCS202) Unit III	**OOPs in python:** Features of Object Oriented Programming system (oops)- classes and objects, encapsulation, abstraction, inheritance, polymorphism, constructors and destructors	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018	Black board and chalk
	Classes and objects: Creating a class, the self-variable, types of variables,namespaces, types of methods, instance methods, class methods, static methods, passing members of one class to another class, inner classes	04		
	Inheritance and polymorphism: Inheritance in python, types of inheritance- single inheritance, multilevel inheritance, hierarchical inheritance, multiple inheritance, constructors in inheritance, overriding super class constructors and methods, the super() method, method resolution order (mro), polymorphism, duck typing, operator overloading, method overloading, method overriding**,**	04		

	Abstract classes and interfaces: Abstract class, abstract method, interfaces in python, abstract classes vs. Interfaces	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-Ms.JUILEE KIRAN PATIL. DEPARTMENT: CS
CLASS:FYCS - B SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVES:

- After successful completion of this course, To appreciate the importance of database design.
- Analyze database requirements and determine the entities involved in the system and their relationship to one another.
- Write simple queries to MySQL related to String, Maths and Date Functions.
- Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- Understand the normalization and its role in the database design process.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Systems (USCS204) UNIT I	**Introduction to DBMS** – Database, DBMS – Definition, Overview of DBMS, Advantages of DBMS, Levels of abstraction, Data independence, DBMS Architecture **Data models** - Client/Server Architecture, Object Based Logical Model, Record Based Logical Model (relational, hierarchical, network) **Entity Relationship Model** - Entities, attributes, entity sets, relations, relationship sets, Additional constraints (key constraints, participation constraints, weak entities, aggregation / generalization, Conceptual Design using ER (entities VS attributes, Entity Vs relationship, binary Vs ternary, constraints beyond ER) **ER to Table**- Entity to Table, Relationship to tables with and without key constraints. **DDL Statements** - Creating Databases, Using Databases, datatypes, Creating Tables (with integrity constraints – primary	15	1.“Fundamentals of Database System”, Elmasri Ramez, Navathe Shamkant, Pearson Education, Seventh edition, 2017 2 “Database Management Systems”, Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	Black board and chalk.

	key, default, check, not null), Altering Tables, Renaming Tables, Dropping Tables, Truncating Tables **DML Statements** – Viewing the structure of a table insert, update, delete, Select all columns, specific columns, unique records, conditional select, in clause, between clause, limit, aggregate functions (count, min, max, avg, sum), group by clause, having clause.		3. "Murach's MySQL", Joel Murach, 3rd Edition, 3rd Edition, 2019	

Database Systems (USCS204) UNIT II	**Relational data model**– Domains, attributes, Tuples and Relations, Relational Model Notation, Characteristics of Relations, Relational Constraints - primary key, referential integrity, unique constraint, Null constraint, Check constraint **Relational Algebra** operations (selection, projection, set operations union, intersection, difference, cross product, Joins – conditional, equi join and natural joins, division) **Functions** – String Functions (concat, instr, left, right, mid, length, lcase/lower, ucase/upper, replace, strcmp, trim, ltrim, rtrim), Math Functions (abs, ceil, floor, mod, pow, sqrt, round, truncate) Date Functions (adddate, datediff, day, month, year, hour, min, sec, now, reverse) **Joining Tables** – inner join, outer join (left outer, right outer, full outer) **Subqueries** – subqueries with IN, EXISTS, subqueries restrictions, Nested subqueries, ANY/ALL clause, correlated subqueries.	15	1."Fundamentals of Database System", Elmasri Ramez, Navathe Shamkant, Pearson Education, Seventh edition, 2017	Black board and chalk
Database Systems (USCS204) UNIT III	**Schema refinement and Normal forms**: Functional dependencies, first, second, third, and BCNF normal forms based on primary keys, lossless join decomposition.	15	2 "Database Management Systems", Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	Black board and chalk

	Database Protection: Security Issues, Threats to Databases, Security Mechanisms, Role of DBA, Discretionary Access Control, Backing Up and Restoring databases **Views** (creating, altering dropping, renaming and manipulating views) **DCL Statements** (creating/dropping users, privileges introduction, granting/revoking privileges, viewing privileges), Transaction control commands – Commit, Rollback **Index Structures of Files**: Introduction, Primary index, Clustering Index, Multilevel indexes.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SONALI DATTATRAY SALVANIKAR DEPARTMENT: CS
CLASS:FYCS SEMESTER: SEM-II MONTH: DECEMBER-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The course aims to introduce a new programming paradigm called Object Oriented Programming. This will be covered using C++ programming language. C++ is a versatile programming language, which supports a variety of programming styles, including procedural, object-oriented, and functional programming. This makes C++ powerful as well as flexible. It can be used to develop software such as operating systems, databases, and compilers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3 Introduction to OOPs using C++, UNIT 1	**Introduction to Programming Concepts**: Object oriented programming paradigm, basic concepts of object oriented programming, benefits of object oriented programming, object oriented languages, applications of object oriented programming.	2	Object Oriented Programming with C++, Balagurusamy	PPT , Projector, Google Meet Blackboard & Chalk
	Tokens-keywords, identifiers, constants-integer, real, character and string constants, backslash constants, features of C++ and its basic structure, simple C++ program without class, compiling and running C++ program..	1		

	Data Types, Data Input Output and Operators: Basic data types, variables, rules for naming variables, programming constants, the type cast operator, implicit and explicit type casting, cout and cin statements ,operators, precedence of operators.	2		
	Decision Making, Loops, Arrays and Strings: Conditional statements-if, if...else, switch loops- while, do...while, for, types of arrays and string and string manipulations.	5		
	Unified Modeling Language (UML): Introduction to UML & class diagrams.	2		
	Classes, Abstraction & Encapsulation: Classes and objects, Dot Operator, data members, member functions, passing data to functions, scope and visibility of variables in function.	3		
UNIT-2	**Constructors and Destructors:** Default constructor, parameterized , constructor, copy constructor, private constructor, destructors.	3	Object Oriented Programming with C++, Balagurusamy , UML & C++:	PPT , Projector, Google Meet Blackboard & Chalk,
	Working with objects: Accessor - mutator methods, static data and static function, access specifiers, array of objects.	4		
	Polymorphism - Binding-static binding & overloading, constructor overloading function overloading, operator overloading, overloading unary and binary operators.	5		
	Modelling Relationships in Class Diagrams: Association, Aggregation- Composition and examples covering these principles.	3		

UNIT 3	**Inheritance:** Defining base class and its derived class, access specifiers, types of inheritance-single, multiple, hierarchical, multilevel, hybrid inheritance, friend function and friend class, constructors in derived classes**.**	4	Object Oriented Programming with C++, Balagurusamy, UML & C++	PPT, Projector, Google Meet Blackboard & Chalk.
	Modelling Relationships: Generalization-Specialization and examples covering these principles.	2		
	Run time Polymorphism - Dynamic Binding, Function overriding, virtual function, pure virtual function, virtual base class, abstract class.	2		
	Pointers: Introduction to pointers, * and & operators, assigning addresses to pointer variables, accessing values using pointers, pointers to objects &this pointer, pointers to derived classes	3		
	File Handling: File Stream classes, opening and closing file-file opening modes, text file handling, binary file handling.	2		
	Applying OOP to solve real life applications: To cover case studies like library management, order management etc. to design classes covering all relationships.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

Sonali

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Jagruti

SIGNATURE OF THE H.O.D.

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Teaching plan for FYCS sem 2 2022-23

ITEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 2

MONTH: February to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- Calculate probability, conditional probability and independence.
- Apply the given discrete and continuous distributions whenever necessary.
- Define null hypothesis, alternative hypothesis, level of significance, test statistic and pvalue.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- Apply non-parametric test whenever necessary.
- Conduct and interpret one-way and two-way ANOVA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **Unit 1**	**Probability:** ➢ Random experiment, sample space, events types and ➢ operations of events, Probability definition: classical, axiomatic, ➢ Elementary Theorems of probability (without proof). ➢ Conditional probability, „Bayes" theorem, independence, Examples on Probability.	**8**	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Sons, New Delhi	

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Keshav Patil College of Commerce
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	Random Variables: ➢ Concept and definition of a discrete random variable and continuous random variable. ➢ Probability mass function, Probability density function and cumulative distribution function of discrete and continuous random variable, ➢ Properties of cumulative distribution function.	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

Unit 2	**Mathematical Expectation and Variance:** ➢ Expectation of a function,Variance and S.D of a random variable, ➢ properties.	6	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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	Standard Probability distributions: ➢ Introduction,properties, ➢ Examples and applications of each of the following distributions: Binomial distribution,Normal distribution,Chi-square distribution, t distribution, F distribution	9	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

Unit 3	**Hypothesis testing:** ➢ One sided,Two sided hypothesis, critical region, p-value, ➢ tests based on t, Normal and F, confidence intervals.	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

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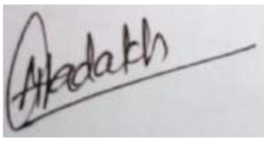
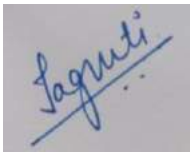
Teaching plan for FYCS sem 2 2022-23

	Analysis of Variance: One-way, two-way analysis of variance. .	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster
	Non-parametric tests: ➢ Need of non-parametric tests, ➢ Sign test,Wilicoxon's signed rank test, run test, Kruskal-Walistests, Chisquare test	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand concept of derivation and application how to apply.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT I DERIVATIVES AND ITS APPLICATIONS	DERIVATIVES AND ITS APPLICATIONS: Review of Basic Concepts: Functions, limit of a function, continuity of a function, derivative function.	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Derivative In Graphing And Applications: Increase, Decrease, Concavity, Relative Extreme; Graphing Polynomials	5		
	Rational Functions, Cusps and Vertical Tangents. Absolute Maxima and Minima	4		
	Applied Maximum and Minimum Problems, Newton's Method.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the application of integration and how to implement in different field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205, UNIT II INTEGRATION AND ITS APPLICATIONS	INTEGRATION AND ITS APPLICATIONS: Integration: An Overview of the Area Problem, Indefinite Integral	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Definition of Area as a Limit; Sigma Notation, Definite Integral, Evaluating	3		
	Definite Integrals by Substitution, Numerical Integration: Simpson's Rule.	3		
	Applications of Integration: Area between two curves, Length of a plane curve.	3		
	Mathematical Modeling with Differential Equations: Modeling with Differential Equations, Separation of Variables, Slope Fields, Euler's Method, First-Order Differential Equations and Applications.)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT III PARTIAL DERIVATIVES AND ITSAPPLICATIONS:	Functions of Several Variables: Functions of two or more variables, Limits and Continuity of functions of two or three variables	4	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Partial Derivatives: Partial Derivatives, Differentiability, Differentials, and Local Linearity, Chain Rule	3		
	Implicit Differentiation, Directional Derivatives and Gradients	4		
	Applications of Partial Derivatives: Tangent Planes and Normal Vectors, Maxima and Minima of Functions of Two Variables.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Bijoya

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande DEPARTMENT: Computer Science

CLASS: S.Y.C.S. SEMESTER: IV

MONTH: Dec - March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

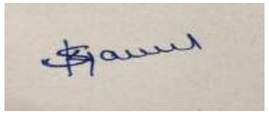
Learner will able to understand the concept of networking.
Useful to proceed with industrial requirement and international vendor certification

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS403 Computer Networks UNIT - 1	Introduction to data communication, Components, Data Representation, Data Flow, Networks, Network Criteria, Physical Structures, Network types, Local Area Network, Wide Area Network, Switching, The Internet, Accessing the Internet, standards and administration Internet Standards.	02	Data Communication and Networking , Behrouz Forouzan	PPT
	Network Models, Protocol layering, Scenarios, Principles of Protocol Layering, Logical Connections, TCP/IP Protocol Suite, Layered Architecture, Layers in the TCP/IP Protocol Suite, Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing. Detailed introduction to Physical Layer, Detailed	08		PPT

	introduction to Data-Link Layer, Detailed introduction to Network Layer, Detailed introduction to Transport Layer, Detailed introduction to Application Layer.			
	Data and Signals, Analog and Digital Data, Analog and Digital Signals, Sine Wave Phase, Wavelength, Time and Frequency Domains, Composite Signals, Bandwidth, Digital Signal, Bit Rate, Bit Length, Transmission of Digital Signals, Transmission Impairments, Attenuation, Distortion, Noise, Data Rate Limits, Performance, Bandwidth, Throughput, Latency (Delay)	05		PPT
USCS403 Computer Networks UNIT - 2	Digital Transmission digital-to-digital conversion, Line Coding, Line Coding Schemes, analog-to-digital conversion, Pulse Code Modulation (PCM), Transmission Modes, Parallel Transmission, Serial Transmission. Analog Transmission, digital-to-analog Conversion, Aspects of Digital-to-Analog Conversion, Amplitude Shift Keying, Frequency Shift Keying, Phase Shift Keying, analog-to-analog Conversion, Amplitude Modulation (AM), Frequency Modulation (FM), Phase Modulation (PM), Multiplexing, Frequency-Division Multiplexing, Wavelength-Division Multiplexing, Time-Division Multiplexing. Transmission Media, Guided Media, Twisted-Pair Cable, Coaxial Cable, Fiber-Optic Cable. Switching, Three Methods of Switching , Circuit Switched Networks, Packet Switching,	09	Data Communication and Networking , Behrouz Forouzan	PPT
	Introduction to Data-Link Layer, Nodes and Links, Services, Two Sub-layers, Three Types of addresses, Address Resolution Protocol (ARP). Error Detection and Correction, introduction, Types of Errors, Redundancy, Detection versus Correction,	06		PPT

USCS403 Computer Networks UNIT - 3	Media Access Control (MAC), random access, CSMA, CSMA/CD, CSMA/CA, controlled access, Reservation, Polling, Token Passing, channelization, FDMA, TDMA, CDMA.	02	Data Communication and Networking , Behrouz Forouzan	PPT
	Connecting Devices and Virtual LANs, connecting devices, Hubs, Link-Layer	02		
	Introduction to Network Layer, network layer services, Packetizing, Routing and Forwarding, Other Services, IPv4 addresses, Address Space, Classful Addressing.	03		
	Unicast Routing, General Idea, Least-Cost Routing, Routing Algorithms, Distance-Vector Routing, Link-State Routing, Path-Vector Routing, Introduction to Transport Layer, Transport-Layer Services, Connectionless and Connection-Oriented Protocols.	03		
	Transport-Layer Protocols, Service, Port Numbers, User Datagram Protocol, User Datagram, UDP Services, UDP Applications, Transmission Control Protocol, TCP Services, TCP Features, Segment.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: SYCS

SEMESTER: IV MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives:

- To understand all the necessary and important technologies such as MongoDB, Express.js, AngularJS, and Node.js.
- To understand modern app development using Flutter

Learning Outcomes:

- Store the data in NoSQL, document-oriented MongoDB database that brings performance and scalability.
- Use Node.js and Express Framework for building fast, scalable network applications
- Use AngularJS framework that offers declarative, two-way data binding for web applications.
- Integrate the front-end and back-end components of the MEAN stack. · Develop robust mobile applications using Flutter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Application Development USCS406 Unit 1	**Node.js (N):** Introduction to Node.js. Installing Node.js. The package.json File. The Node.js Event Loop. The I/O Cycle. The Anatomy of a Node.js Module. Creating Node Modules. Exploring the Node.js HTTP Module. Creating an HTTP Webserver with Node.js. Responding to HTTP Requests. Routing in Node.js. Creating a Sample Node.js Application. **MongoDB(M):** Introduction to MongoDB. Installing MongoDB. Using MongoDB Compass. Using Mongo Shell Interface. Connecting to MongoDB. Creating Schemas and Models. Querying	15	Node.js, MongoDB and Angular Web Development: The definitive guide to using the MEAN stack to build web applications by Brad Dayley, Brendan Dayley, Caleb Dayley, Pearson, 2018.	Projector, PPT, Black board & Chalk

	Documents Using find(). Inserting Documents Using create(). Updating Documents Using findOneAndUpdate(). Deleting Documents Using findOneAndDelete() & deleteMany()		And Internet	

Advanced Application Development USCS406 Unit 2	**Server-Side Development with Express (E):** Introduction to the Express Framework. Installing and Testing Express. Creating a Node.js Express App. Restructuring an Express App. Creating Templates. Using Express Middleware Functions. Creating the List Page. Creating the Details Page. Creating the Edit Page. Creating the Add Page. Deleting Data. REST API Basics. Testing REST APIs. Refactoring APIs. **Understanding Angular.JS(A):** Getting Started with Angular. Creating an Angular Application. Angular Project File Structure. Anatomy of an Angular Component. One-way Data Binding. Two-way Data Binding. Using NgIf Directive. Using NgForOf Directive. Angular Modules. Creating NgModules Using Angular Router. Configuring Templates. Creating Navigations. Working with Template-driven Forms. Working with Reactive Forms. Validating Form Data. Services Dependency Injection (DI). Reading Data from Database. Inserting Data into Database. Updating Data in the Database. Delete Data from Database.	15	Full Stack Javascript Development with Mean - MongoDB, Express, AngularJS, and Node.JS by Adam Bretz, Colin J Ihrig, Shroff/SitePoint, 2015 And Internet	Projector, PPT, Black board & Chalk
Advanced Application Development USCS406 Unit 3	**Understanding Flutter:** Importance of Flutter, Flutter Framework, Android Studio, Flutter SDK, Installing and Configuring Flutter SDK. **Dart Programming**: main() function, Dart Variables, Dart Data Types, Dart Conditional Operators, Control Flow & Loops. Dart Functions - Functions, Function Structure, creating a Function, Function Returning Expression. Object-Oriented Programming (OOP) - Creating a Class, Adding Methods to Classes, Class — Getters and Setters, Class Inheritance, Abstract Class. **Flutter Widgets Fundamentals**: Scaffold Widget, Image Widget, Container Widget, Column and Row Widgets, Icon Widget, Layouts in Flutter, Card Widget, Hot Reload and Hot Restart, Stateful and	15	Beginning Flutter: A Hands On Guide to App Development by Marco L. Napoli, Wrox, 2019 And Internet	Projector, PPT, Black board & Chalk

	Stateless Widgets **Navigation and Routing:** Button Widget, App Structure and Navigation, Navigate to a New Screen and Back, Navigate with Named Routes, Send and Return Data among Screens, Animate a Widget across Screens, WebView Widget in Flutter			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYCS

SEMESTER: SEM-4 MONTH: NOV-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Plan a software engineering process life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements
- Analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
- Know how to develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice
- Able to use modern engineering tools necessary for software project management, time management and software reuse..

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 3 SOFTWARE ENGINEERING UNIT 1	**Introduction:** The Nature of Software, Software Engineering, Professional Software Development, Layered Technology, Process framework, CMM	2	SOFTWARE ENGINEERING , A PRACTITIONER'S APPROACH, ROGER S, PRESSMAN, 2019	BLACK BOARD AND CHALK
	Process Patterns and Assessment Prescriptive Models: Waterfall Model, Incremental, RAD Models	3		
	Evolutionary Process Models: Prototyping, Spiral and Concurrent Development Model Specialized Models: Component based, Aspect Oriented development	3		
	The Unified Process Phases, Agile Development- Agility, Agile Process, Extreme Programming	2		

	Requirement Analysis and System Modeling: Requirements Engineering, Eliciting Requirements, SRS Validation, Components of SRS, Characteristics of SRS,	2		
	the UML - Class diagram, Object diagram, Use case diagram, Sequence diagram, Collaboration diagram, State chart diagram, Activity diagram, Component diagram, Deployment diagram	3		
PAPER 3 SOFTWARE ENGINEERING UNIT 2	**System Design:** System/Software Design, Architectural Design, LowLevel Design Coupling and Cohesion, Functional-Oriented Versus ObjectOriented Approach, Design Specifications, Verification for Design, Monitoring and Control for Design	3	SOFTWARE ENGINEERING , A PRACTITIONE R'S APPROACH, ROGER S, PRESSMAN, 2019	
	Software Measurement and Metrics: Process Metrics and Project Metrics, Software Measurement, Object Oriented Metrics, Software Project Estimation, Decomposition Techniques, LOC based, FP based and Use case based estimations, Empirical estimation Models	3		
	Software Project Management: Estimation in Project Planning Process –Software Scope and Feasibility, Resource Estimation, Empirical Estimation Models – COCOMO II, Estimation for Agile Development, The Make/Buy Decision	3		
	Project Scheduling - Basic Principles, Relationship Between People and Effort, Effort Distribution, Time-Line Charts	2		
PAPER 3 SOFTWARE	**Risk Management** - Risk strategies, Software risks, Risk Identification, projection, RMMM Quality Concepts	2	SOFTWARE ENGINEERING	

ENGINEERING UNIT 3	**Software Quality Assurance SQA** activities, Software reviews, FTR, Software reliability and measures, SQA plan Software Configuration Management, elements of SCM, SCM Process, Change Control Capability Maturity Model	3	, A PRACTITIONER'S APPROACH,	

	Software Testing : Verification and Validation, Introduction to Testing, Testing Principles, Testing Objectives, Test Oracles, Levels of Testing, White-Box Testing/Structural Testing, Functional/Black-Box Testing, Test Plan, Test-Case Design	3	ROGER S, PRESSMAN, 2019	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 34

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(CS)**

SEMESTER: **IV** MONTH: **November - February** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

1. Understand Grammar and Languages.
2. Learn about Automata theory and its application in Language Design.
3. Learn about Turing Machines and Pushdown Automata.
4. Understand Linear Bound Automata and its applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT I**	**Automata Theory:** Defining Automaton, Finite Automaton, Transitions and Its properties, Acceptability by Finite Automaton	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Nondeterministic Finite State Machines, DFA and NDFA equivalence, Mealy and Moore Machines, Minimizing Automata.	4		
	Formal Languages: Defining Grammar, Derivations, Languges generated by Grammar	3		
	Chomsky Classification of Grammar and Languages, Recursive Enumerable Sets, Operations on Languages, Languages and Automata	4		

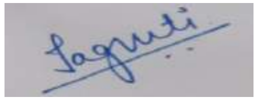
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

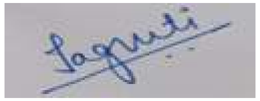
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT II**	**Regular Sets and Regular Grammar:** Regular Grammar, Regular Expressions, Finite automata and Regular Expressions	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Pumping Lemma and its Applications, Closure Properties, Regular Sets and Regular Grammar	4		
	Context Free Languages: Context-free Languages, Derivation Tree, Ambiguity of Grammar, CFG simplification, Normal Forms, Pumping Lemma for CFG	4		
	Pushdown Automata: Definitions, Acceptance by PDA, PDA and CFG	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT III**	**Linear Bound Automata:** The Linear Bound Automata Model, Linear Bound Automata and Languages.	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Turing Machines: Turing Machine Definition, Representations, Acceptability by Turing Machines.	4		
	Designing and Description of Turing Machines, Turing Machine Construction, Variants of Turing Machine,	3		
	Undecidability: The Church-Turing thesis, Universal Turing Machine, Halting Problem, Introduction to Unsolvable Problems	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(CS) DIV:C SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The course aims to understand the basics research, how research problems are defined, research methods are adopted and/or developed, research is undertaken, and how research results are communicated to the peers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USCS4071, unit1:, Title:RM	Introduction to Research Methodology: Meaning of Research, Objectives of Research, Motivations in Research, types of Research, Research Approaches, Significance of Research, Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

	Defining the Research Problem: Concept and need, Identification of Research problem, defining and delimiting Research problem. Formulating a Research Problem: Reviewing Literature, formulating a Research Problem, Research Question, Identifying Variables, Constructing Hypothesis	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	The Research Design: Meaning, Need for Research Design, Important Concepts, Different Research Designs, Basic Principles of Experimental Designs.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

Paper: USCS4071, unit2:, Title:RM	Tools for Data Collection: Collections of Primary Data, Collection of Data through questionnaire and Schedules, other Observation Interview Methods, Collection of Secondary Data, Selection of appropriate method for data collection, Case Study, Focus Group Discussion, Techniques of developing research tools, viz. Questionnaire and rating scales etc. Reliability and validity of Research tools.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	Sampling Design: Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, how to Select a Random Sample. Probability and Non-Probability sampling types and criteria for selection, Developing sampling Frames.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

	Overview of Hypothesis Testing: What is a Hypothesis? Characteristics of good Hypothesis. Basic Concepts, Procedure for Hypothesis Testing, Flow Diagram for Hypothesis Testing, Tests of Hypotheses, and One sided and two-sided hypothesis, Type – I and Type – II errors, Null HypothesisAlternative Hypothesis.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

Paper: USCS4071, unit3:, Title:RM	Technical Writing: Writing a Research Proposal, what is a Scientific Paper? Ethics in Scientific Publishing. Preparing the Text: How to Prepare the Title, how to List the Authors and Addresses, how to Prepare the Abstract, how to Write the Introduction, how to Write the Materials and Methods Section, how to Write the Results, how to Write the Discussion, how to State the Acknowledgments, how to Cite the References.	8	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	Preparing the Tables and Figures: How to Design Effective Tables, how to Prepare Effective Graphs, how to Prepare Effective Photographs. Publishing the Paper: Rights and Permissions, How to Submit the Manuscript, How and When to Use Abbreviations, How to Write a thesis, Outcome of Research, Ethical issues in research	7	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 15

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **SYBSCCS** SEMESTER:**IV**

MONTH: **NOV-MARCH** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- Build useful mobile applications using Kotlin language on Android
- Install and configure Android Studio for application development
- Master basic to intermediate concepts of Kotlin required for mobile application development
- Use built-in widgets and components, work with the database to store data
- Master key Android programming concepts and deploy the application on Google Play

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS405 Android Application	**Introduction to Kotlin:** Basics of Kotlin, type conversions, comments, Kotlin operators, variables in Kotlin, packages, visibility modifiers, control flow statements, Concept of OOPS in Kotlin, classes in Kotlin, delegation and extension functions, the companion object,	03	Android Programming with Kotlin for Beginners, John	power point,

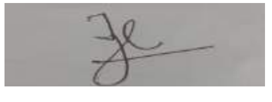
Development UNIT-1	**Advanced Concepts in Kotlin**: declaring and calling functions, parameters, and arguments in Kotlin, default argument, variable number of arguments, unit-returning function, explicit return type, lambda expression, coroutines, Collections in Kotlin, Mutable and Immutable Collections, Ranges, type Checks, casting concept, this expression, Null safety, exception handling,	03	Horton, Packt Publishing, 2019 Android Development with Kotlin:	Black Board

	annotations		Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	
	App Development with Android Studio: Android Architecture, Android Application Framework, Android Virtual Device, Creating and running First Android Application, working with Physical Android Device, Adding Kotlin Files in Android Studio	04		
	Basics Of Android- Application Components: Activities, Intent, and Broadcast Receiver, Services, Fragment, Activity Life Cycle, Content Provider, Widgets, and Notifications	05		
USCS405 Android Application Development UNIT-2	**Designing Android UI**: User Interface (UI), Layout and Its Types, Layout Attribute, working with Views, Android UI Controls, Styles and Themes, Event Handler, setting up themes in Manifest and from the application, dialog in activity, using intents, fragments	03	Android Programming with Kotlin for Beginners, John Horton, Packt Publishing, 2019 Android Development with Kotlin: Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	power point, Black Board
	Handle Images, Listview And Menu: ImageView, ImageSwitcher, ListView, Menu, and its types, Designing menu in XML, Option menu, Context menu, popup menu, Screen Navigation, RecyclerView, Interaction of Views	03		
	Data binding in Android-AdapterView, Spinner, Gallery view, AutotextCompleteView, screen orientation, Design the view dynamically	04		
	Implementing Data Persistence: Data Storage-Shared Preference, Internal And External Storage Storing Data Using SQLite Databases, Content Provider, Firebase Real-Time Data	05		
USCS405 Android	**Graphics, Animations, and Integrating Media in Android**: Drawable Class, Animation in Android, MediaPlayer API and in Android, Mediaplayer and AudioManger Class,	03	Android Programming with Kotlin for	power point, Black Board

Application Development	**Interacting With Camera and input gestures**: Android Camera, Input gestures-multiple touch, swipe, drag, scroll, zoom, Recording	03	Beginners, John Horton, Packt Publishing, 2019	

UNIT-3	**Managing Background Tasks**: Broadcaset Receivers, Services, Threads and Process, AsyncTask, JobScheduler, Manage device Awake State	04	Android Development with Kotlin: Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	
	Deploying Android applications on Google Play- Publishing/Deploy the application, Versioning, signing Application	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande DEPARTMENT: Computer Science

CLASS: T.Y.C.S. SEMESTER: VI

MONTH: Dec - March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 01	**Introduction:** Introduction to Sensor Networks, unique constraints and challenges. Advantage of Sensor Networks, Applications of Sensor Networks, Mobile Adhoc NETworks (MANETs) and Wireless Sensor Networks, Enabling technologies for Wireless Sensor Networks.	07	Protocols and Architectures for Wireless Sensor Network, Holger Kerl, Andreas Willig, John Wiley and Sons, 2005	PPT
	Sensor Node Hardware and Network Architecture: Single-node architecture, Hardware components & design constraints, Operating systems and execution environments, introduction to TinyOS and nesC. Network architecture, Optimization goals and figures of merit, Design principles for WSNs, Service interfaces of WSNs, Gateway concepts.	08		PPT

USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 02	**Medium Access Control Protocols:** Fundamentals of MAC Protocols, MAC Protocols for WSNs, Sensor-MAC Case Study.	05	Wireless Sensor Networks Technology, Protocols, and Applications ,Kazem Sohraby, Daniel Minoli and TaiebZnati, John Wiley & Sons, 2007	PPT
	Routing Protocols : Data Dissemination and Gathering, Routing Challenges and Design Issues in Wireless Sensor Networks, Routing Strategies in Wireless Sensor Networks.	05		PPT
	Transport Control Protocols : Traditional Transport Control Protocols, Transport Protocol Design Issues, Examples of Existing Transport Control Protocols, Performance of Transport Control Protocols.	05		PPT
USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 03	**Introduction, Wireless Transmission and Medium Access Control:** Applications, A short history of wireless communication.	02	Mobile communications, Jochen Schiller,2nd Edition, Addison wisely , Pearson Education,2012	PPT
	Wireless Transmission: Frequency for radio transmission, Signals, Antennas, Signal propagation, Multiplexing, Modulation, Spread spectrum, Cellular systems.	05		PPT
	Telecommunication, Satellite and Broadcast Systems: GSM: Mobile services, System architecture, Radio interface, Protocols, Localization And Calling, Handover, security, New data services; DECT: System architecture, Protocol architecture; ETRA, UMTS and IMT- 2000. Satellite Systems: History, Applications, Basics: GEO, LEO, MEO; Routing, Localization, Handover.	08		PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: TYCS

SEMESTER: VI MONTH: December to March ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- To understand the ethics, legality, methodologies and techniques of hacking.

The learners will be able to:

- Learner will know to identify security vulnerabilities and weaknesses in the target applications.
- They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ethical Hacking Elective-II USCS506 Unit 1	**Information Security : Attacks and Vulnerabilities** **Introduction to information security :** Asset, Access Control, CIA, Authentication, Authorization, Risk, Threat, Vulnerability, Attack, Attack Surface, Malware, Security-Functionality-Ease of Use Triangle	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Types of malware : Worms, viruses, Trojans, Spyware, Rootkits	2	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016	Projector, Laptop, Black board& Chalk

			AND	

			Internet	
	Types of vulnerabilities : OWASP Top 10 : cross-site scripting (XSS), cross site request forgery (CSRF/XSRF), SQL injection, input parameter manipulation, broken authentication, sensitive information disclosure, XML External Entities, Broken access control, Security Misconfiguration, Using components with known vulnerabilities, Insufficient Logging and monitoring, OWASP Mobile Top 10, CVE Database	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Types of attacks and their common prevention mechanisms : Keystroke Logging, Denial of Service (DoS /DDoS), Waterhole attack, brute force, phishing and fake WAP, Eavesdropping, Man-in-the-middle, Session Hijacking, Clickjacking, Cookie Theft, URL Obfuscation, buffer overflow, DNS poisoning, ARP poisoning, Identity Theft, IoT Attacks, BOTs and BOTNETs	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Case-studies : Recent attacks – Yahoo, Adult Friend Finder, eBay, Equifax, WannaCry, Target Stores, Uber, JP Morgan Chase, Bad Rabbit	1	Internet	Projector, Laptop, Black board& Chalk
Ethical Hacking Elective-II USCS506 Unit 2	**Ethical Hacking – I (Introduction and pre-attack) Introduction:** Black Hat vs. Gray Hat vs. White Hat (Ethical) hacking, Why is Ethical hacking needed?, How is Ethical hacking different from security auditing and digital forensics?, Signing NDA, Compliance and Regulatory 15L concerns, Black box vs. White box vs. Black box, Vulnerability assessment and Penetration Testing.	5	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND Internet	Projector, Laptop, Black board& Chalk

	Approach : Planning - Threat Modeling, set up security verification standards, Set up security testing plan – When, which systems/apps, understanding functionality, black/gray/white, authenticated vs. unauthenticated, internal vs. external PT, Information gathering, Perform Manual and automated (Tools: WebInspect/Qualys, Nessus, Proxies, Metasploit) VA and PT, How WebInspect/Qualys tools work: Crawling/Spidering, requests forging, pattern matching to known vulnerability database and Analyzing results, Preparing report, Fixing security gaps following the report	5	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Enterprise strategy : Repeated PT, approval by security testing team, Continuous Application Security Testing,	3	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Phases: Reconnaissance/foot-printing/Enumeration, Scanning, Sniffing	2	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Ethical Hacking : Enterprise Security Phases : Gaining and Maintaining Access : Systems hacking – Windows and Linux – Metasploit and Kali Linux, Keylogging, Buffer Overflows, Privilege Escalation, Network hacking - ARP Poisoning, Password Cracking, WEP Vulnerabilities, MAC Spoofing, MAC Flooding, IPSpoofing, SYN Flooding, Smurf attack,	5	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk

Ethical Hacking Elective-II	**Applications hacking :** SMTP/Email-based attacks, VOIP vulnerabilities, Directory traversal, Input Manipulation, Brute force attack, Unsecured login mechanisms, SQL injection, XSS, Mobile	5	Certified Ethical Hacker Study Guide v9, Sean-Philip	Projector, Laptop, Black board& Chalk

USCS506 Unit 3	apps security,		Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	
	Malware analysis : Netcat Trojan, wrapping definition, reverse engineering	1	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk
	Phases : Covering your tracks : Steganography, Event Logs alteration	1	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk
	Additional Security Mechanisms : IDS/IPS, Honeypots and evasion techniques, Secure Code Reviews (Fortify tool, OWASP Secure Coding Guidelines)	3	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK DEPARTMENT:IT SUBJECT:IR CLASS: TYCS SEM:VI

MONTH: December to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

To provide a understanding of operating system, its structures and functioning

Develop and master understanding of algorithms used by operating systems for various purposes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
604 UNIT I	**Introduction to Information Retrieval:** Introduction, History of IR, Components of IR, and Issues related to IR, Boolean retrieval, Dictionaries and tolerant retrieval.	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point

604 UNIT II	**Link Analysis and Specialized Search:** Link Analysis, hubs and authorities, Page Rank and HITS algorithms, Similarity, Hadoop & Map Reduce, Evaluation, Personalized search, Collaborative filtering and content-based recommendation of documents and products, handling "invisible" Web, Snippet generation, Summarization, Question and Answering, Cross-Lingual Retrieval	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point, Chalk and Black board
604 UNIT III	**Web Search Engine:** Web search overview, web structure, the user, paid placement, search engine optimization/spam, Web size measurement, search engine optimization/spam, Web Search Architectures. **XML retrieval:** Basic XML concepts, Challenges in XML retrieval, A vector space model for XML retrieval, Evaluation of XML retrieval, Text-centric versus data-centric XML retrieval.	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point, Chalk and Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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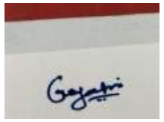

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **T.Y.B.Sc.(CS)**

SEMESTER: **VI** MONTH: **December- March** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To get a clear understanding of AI and different search algorithms used for solving problems.
- To get acquainted with different learning algorithms and models used in machine learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 **Paper 4** **Data Science** **UNIT I**	**Introduction to Data Science:** What is Data? Different kinds of data	3	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation R Tool
	Introduction to high level programming language + Integrated Development Environment (IDE)	4		
	Exploratory Data Analysis (EDA) + Data Visualization, Different types of data sources	4		
	Data Management: Data Collection, Data cleaning/extraction, Data analysis &Modeling	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 **Paper 4** **Data Science** **UNIT II**	**Data Curation:** Query languages and Operations to specify and transform data, Structured/schema based systems as users and acquirers of data	4	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation
	Semi-structured systems as users and acquirers of data, Unstructured systems in the acquisition and structuring of data,	3		
	Security and ethical considerations in relation to authenticating and authorizing access to data on remote systems,	4		
	Software development tools, Large scale data systems, Amazon Web Services (AWS)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 **Paper 4** **Data Science** **UNIT III**	**Statistical Modelling and Machine Learning:** Introduction to model selection: Regularization, bias/variance tradeoff e.g. parsimony, AIC, BIC, Cross validation, Ridge regressions and penalized regression e.g. LASSO	5	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation R Tool
	Data transformations: Dimension reduction, Feature extraction, Smoothing and aggregating	2		
	Supervised Learning: Regression, linear models, Regression trees, Time-series Analysis, Forecasting, Classification: classification trees, Logistic regression, separating hyperplanes, k-NN	4		
	Unsupervised Learning: Principal Components Analysis (PCA), k-means clustering, Hierarchical clustering, Ensemble methods	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Shweta Kiran Yande DEPARTMENT: CS

CLASS: M. Sc. C.S SEMESTER: I MONTH: September - December ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
Learners will be able to understand basic concepts of Software Defined
Networking and network virtualization.. Learners will be able to explore OpenFlow specifications to build Software defined networks. Learners will be able to analyse and implement theories and practical related to Network management and Virtualization.. Learners will be able to apply knowledge of Software Defined Networking as per industry standards.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 2 PSCS102 Software Defined Networking Unit 1	Basic Concepts and Definitions: LAN, MAN, WAN, AD-Hoc, Wireless Network, Understanding the layered architecture of OSI/RM and TCP-IP Model, Concepts and implementation of IPV4 and IPV6, Study of various network Routing protocols, Introduction to Transport layer and Application layer protocols.	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Shweta Kiran Yande DEPARTMENT: CS

CLASS: M. Sc. C.S SEMESTER: II MONTH: February-May ACADEMIC YEAR: 2020-2021

LEARNING OBJECTIVE/S:
The learners will be able to:
Learn different computer attacks and different security techniques

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 2 PSCS102 Software Defined Networking Unit 2	Elements of Modern Networking, Requirements and Technology, SDN: Background and Motivation, SDN Data Plane and OpenFlow, SDN Control Plane, SDN Application Plane	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet
Paper 2 PSCS102 Software Defined Networking Unit 3	Concepts and Architecture, NFV Functionality, Network Virtualization Quality of Service, MODERN NETWORK ARCHITECTURE: CLOUDS AND FOG, Cloud Computing, The Internet of Things: Components	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT

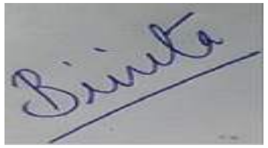
CLASS: M. Sc. C.S   SEMESTER: I   MONTH: September-December   ACADEMIC YEAR: 2022-2023

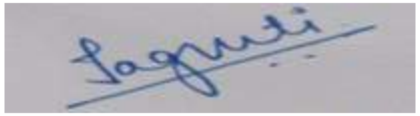
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Analyse and implement theories and practical related to Network management and Virtualization.
b. Apply knowledge of Software Defined Networking as per industry standards.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Software Defined Networking Unit -IV	Understand and implement Layer 2/3 switching techniques (VLAN/TRUNKING/ Managing Spanning Tree), Implementation of OSPF V2 and V3, Implementation BGP	5	Behrouz A Forouzan —TCPIP Protocol Suite‖ Fourth Edition 2010	PowerPoint presentation
	Implementation Multicast Routing, Implementation of MPLS, Implementation of Traffic Filtering by using Standard and Extended Access Control List	5		PowerPoint presentation
	Implementation of Routing redistribution, Implementation of Policy Based Routing/ Load Balancing /QOS/Natting /VRF	5		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. CS SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:
a. To understand the role of cryptography in communication over an insecure channel.
b. To analyze and compare symmetric-key encryption and public-key encryption schemes based on different security models

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-II Security (Cryptography and Cryptanalysis) Unit -I	**Cryptosystems and Basic Cryptographic Tools:** Introduction, Secret-key Cryptosystems, Public-key Cryptosystems, Block and Stream Ciphers, Hybrid Cryptography, Hybrid Cryptography, Message Integrity, Message Authentication Codes, Signature Schemes, Nonrepudiation, Certificates, Hash Functions, Cryptographic Protocols, Security	4	Cryptography Theory and Practice Douglas R. Stinson, , Fourth Edition, CRC Press, 2019	PowerPoint presentation
	Classical Cryptography: Introduction to Some Simple Cryptosystems, Shift Cipher, Substitution Cipher, Affine Cipher, Vigenere Cipher, Hill Cipher, Permutation Cipher, Stream Ciphers, Cryptanalysis, Cryptanalysis of the Affine Cipher, Cryptanalysis of the Substitution Cipher, Cryptanalysis of the Vigenere Cipher, Cryptanalysis of the Hill Cipher, Cryptanalysis of the LFSR Stream Cipher.	4		PowerPoint presentation
	Perfect Secrecy: Introduction, Perfect Secrecy, Entropy, Properties of Entropy, Spurious Keys, and Unicity Distance	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. CS SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:
a. To understand the role of cryptography in communication over an insecure channel.
b. To analyze and compare symmetric-key encryption and public-key encryption schemes based on different security models

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security (Cryptography and Cryptanalysis) Unit -II	**Block Ciphers and Stream Ciphers:** Substitution-Permutation Networks, Linear Cryptanalysis, Differential Cryptanalysis, Data Encryption Standard, Advanced Encryption Standard, Modes of Operation, Stream Ciphers	4	Cryptography Theory and Practice Douglas R. Stinson, , Fourth Edition, CRC Press, 2019	PowerPoint presentation
	Hash Functions and Message Authentication: Hash Functions and Data Integrity, Security of Hash Functions, Iterated Hash Functions, Sponge Construction, Message Authentication Codes, Unconditionally Secure MACs	4		PowerPoint presentation
	RSA Cryptosystem and Factoring: Public-key Cryptography, Number Theory-Euclidean Algorithm, Chinese Remainder Theorem, Other Useful Facts, RSA Cryptosystem, Primality Testing, Square Roots Modulo n, Factoring Algorithms, Rabin Cryptosystem, Semantic Security of RSA	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

SIGNATURE OF THE STAFF

Jagruti

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: COMPUTER SCIENCE CLASS: MSc.Cs(Part I)

SEMESTER: I MONTH: OCTOBER-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- Learners will be able to explore XML, and Mobile databases.
- Learners will be able to deal with methods used for dealing with spatial and Temporal Databases.
- Learner will have a solid grasp on business intelligence tools and XML.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
PSCS401 Unit 1, **Advanced Database Techniques**	**Enhanced Database Models** Object–Oriented Databases: Need of Object-oriented databases, Complex Data Types, Structured Types and Inheritance, Object-Identity and Reference, ODL and OQL, Implementing O-R Features, Persistent Programming Languages, Object-Oriented versus Object-Relational, Example of Object oriented and object relational database implementation, comparison of RDBMS, OODBMS, ORDBMS XML Databases: Structured Semi structure and unstructured data, XML hierarchical tree data model, Documents DTD and XML schema, XML Documents & Database, XML query and transformation, Storage of XML data, Xpath. XQuery, Join and Nesting Queries, XML database applications	07	Database Management Systems by Raghu Ramakrishnan and Johannes Gehrke, McGraw Hill, 3rd Edition, 2014	Power Point Presentation
	Spatial Databases: Types of spatial data, Geographical Information Systems (GIS), Conceptual Data Models for spatial databases, Logical data models for spatial databases: Raster and vector model. Physical data models for spatial databases: Clustering methods (space filling curves), Storage methods (R-tree). Query processing. Temporal Databases: Time ontology,	08	Database Management Systems by Raghu Ramakrishnan and Johannes	Power Point Presentation

	structure, and granularity, Temporal data models, Temporal relational algebra.		Gehrke, McGraw Hill, 3rd Edition, 2014	
PSCS401 Unit 3, **Advanced Database Techniques**	**Learning the NoSQL Basics** Introduction to NoSQL: Characteristics of NoSQL, NoSQL Storage types, Advantages and Drawbacks, NoSQL Products Interfacing and interacting with NoSQL: Storing Data In and Accessing Data from MongoDB, Redis, HBase and Apache Cassandra, Language Bindings for NoSQL Data Stores	07	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
	Understanding the storage architecture: Working with Column-Oriented Databases, HBase Distributed Storage Architecture, Document Store Internals, Understanding Key/Value Stores in Memcached and Redis, Eventually Consistent Non-relational Databases Performing CRUD operations: Creating Records, Accessing Data, Updating and Deleting Data	08	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
PSCS401 Unit 4, **Advanced Database Techniques**	**Gaining Proficiency With NoSQL** Querying NoSQL Stores: Similarities Between SQL and MongoDB Query Features, Accessing Data from Column-Oriented Databases Like HBase, Querying Redis Data Stores Indexing And Ordering Data Sets: Essential Concepts Behind a Database Index, Indexing and Ordering in MongoDB, ouchDB and Apache Cassandra	07	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
	Managing Transactions And Data Integrity: RDBMS and ACID, Distributed ACID Systems, Upholding CAP, Consistency Implementations Using NoSQL in The Cloud: Google App Engine Data Store, Amazon SimpleDB	08	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **I** MONTH: **September - December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To cover advanced topics of databases to become more proficient.
- To provide students with theoretical knowledge and practical skills in advanced topics in database systems, big data and modern data intensive systems.
- To expand students, view and introduce advanced topics and Business Intelligence.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS104 **Paper IV** **Advanced Database Techniques** **UNIT II**	**Unit II: Cooperative Transaction Model** Parallel and Distributed Databases: Architecture of parallel databases, Parallel query evaluation, Parallelizing individual operations, Sorting Joins Distributed Databases: Concepts, Data fragmentation, Replication and allocation techniques for distributed database design, Query processing, Concurrency control and recovery in distributed databases, Architecture and Design: Centralised versus non centralized Databases, Homogeneous and Heterogeneous DDBMS, Functions and Architecture, Distributed database design, query processing in DDBMS, Distributed concurrency management, deadlock management, Distributed Commit Protocols: 2 PC and 3 PC, Concepts of replication servers. Mobile Database: Overview, Features, Advantages and Disadvantages, Mobile databases in Android System	15	Database Management Systems, 3rd edition, Raghu Ramakrishnan and Johannes Gehrke, McGraw-Hill (2002).	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **III** MONTH: **September - December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understands the fundamentals of Visualization.
- Working with different Data Collection Structures.
- Efficiently handle various source data using Tableau.
- Data Visualization and Analysis can be performed using Tableau.
- Handling and customizing Geospatial data using Tableau.
- Creating a story using the dashboard to analyze data

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS3041 **Paper IV** **Data Visualization** **UNIT I**	**Preparing and Storing Data** **Series**: Creating a Series with index, creating a Series from a Dictionary, Creating a Series from a Scalar Value, Vectorized Operations and Label Alignment with Series, Name Attribute. Accessing Data from a Series with a Position, Exploring and Analysing a Series, Operations on a Series. **Data Frames**: Creating a Data Frame from a Dict of Series or Dicts, Creating Data Frames from a Dict of Ndarrays, Creating Data Frames from a Structured	15	Dr. Ossama Embarak, Data Analysis and Visualization Using Python, Apress, 2018 Wes McKinney, "Python for Data Analysis: Data Wrangling with	Microsoft PowerPoint Presentation

	or Record Array, Creating Data Frames from a List of Dicts, Creating Data Frames from a Dict of Tuples, Selecting, Adding, and Deleting Data Frame Columns, Assigning New Columns in Method Chains, Row Selection, Row Addition, Row Deletion, Exploring and Analysing a Data		Pandas, NumPy, and IPython", O'Reilly, 2nd Edition, 2018.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

PSCS3041 **Paper IV** **Data Visualization** **UNIT II**	**Data Cleaning and Data Wrangling** **Data Gathering and Cleaning:** Cleaning Data, Checking for Missing Values, Handling the Missing Values, Reading and Cleaning CSV Data, Merging and Integrating Data, Reading Data from the JSON Format, HTML Format, XML Format. **Data Transformation Removing Duplicates:** Replacing Values, Renaming Axis Indexes **Hierarchical Indexing:** Reordering and Sorting Levels Summary' Statistics by Level Indexing with a DataFrame's columns. Combining and Merging Datasets Database-Style, DataFrame Joins Merging on Index Concatenating Along with an Axis Combining Data with Overlap **Reshaping and Pivoting:** Reshaping with Hierarchical Indexing Pivoting "Long" to "Wide" Format Pivoting "Wide" to "Long" Format **Statistical Analysis, Data Aggregation:** Data Grouping, Iterating Through Groups, Aggregations, Transformations, Filtration.	15	Dr. Ossama Embarak, Data Analysis and Visualization Using Python, Apress, 2018 Wes McKinney, "Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython", O'Reilly, 2nd Edition, 2018.	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:I

MONTH: **SEPT-DEC** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- You will be able to effectively implement optimization techniques to the Existing algorithm to improve its performance.
- You will be able to work in the areas of Machine Learning and Data Sciences Algorithms

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS101Algorithm for Optimization **Unit I: Introduction to Optimization Process**	Basic Optimization Problem, Constraints, Critical Points, Conditions for Local Minima, Contour Plots. Unimodality, Fibonacci Search, Golden Section Search, Quadratic Fit Search.	15	Algorithms for Optimization Mykel J. Kochenderfer, Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H.	Laptop,power point,blackboard

			Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	
PSCS101Algorithm for Optimization **Unit III: Sampling and Surrogate Models**	Sampling Plans, Full Factorial, Random Sampling, Uniform Projection Plans, Stratified Sampling, Space-Filling Metrics. Surrogate Models, Fitting Surrogate Models, Linear Models, Basis Functions, Fitting Noisy Objective Functions, Model Selection, Probabilistic Surrogate Models, Gaussian Distribution, Gaussian Processes, Prediction	15	Algorithms for Optimization Mykel J. Kochenderfer, Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	Laptop,power point,blackboard
	Optimization under Uncertainty, Uncertainty, Set-Based Uncertainty, Probabilistic Uncertainty. Uncertainty Propagation, Sampling	15	Algorithms for Optimization Mykel J. Kochenderfer,	Laptop,power point,blackboard

PSCS101Algorithm for Optimization **Unit IV: Optimization and Uncertainty**	Methods, Taylor Approximation, Polynomial Chaos, Bayesian Monte Carlo. Dynamic Programming, Ant Colony Optimization. Expression Optimization, Grammars, Genetic Programming, Grammatical Evolution, Probabilistic Grammars, Probabilistic Prototype Trees		Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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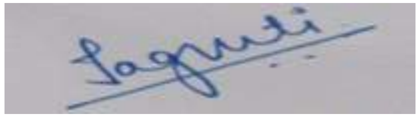

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Computer Science CLASS:MScCS

SEMESTER: I MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

Course Outcome: -

- To cover the technical aspects of cryptocurrencies, blockchain technologies, and distributed consensus.
- To familiarize potential applications for Bitcoin-like cryptocurrencies
- To Basics of smart contracts, decentralized apps, and decentralized anonymous organizations (DAOs)
- To know Solidity programming

Course Specific Outcome: -

- Understand blockchain technology.
- Develop blockchain-based solutions and write smart contracts using Hyperledger Fabric and Ethereum frameworks.
- Build and deploy blockchain applications for on-premise and cloud-based architecture.
- Integrate ideas from various domains and implement them using blockchain technology from different perspectives.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS3011 Advanced Computing (Web3 Technologies) Unit-II	**Smart Contracts & Ethereum** Smart Contracts: History, Definition Ricardian contracts, Smart contract templates, Oracles, Deploying smart contracts, The DAO **Ethereum**: Overview, Ethereum network, Components of the Ethereum ecosystem, The Ethereum Virtual Machine (EVM), Smart contracts, Blocks and Blockchain, Wallets and client software, Nodes and miners, APIs, tools, and DApps, Supporting protocols, Programming languages,	15L	Andreas M. Antonopoulos, Dr.Gavin wood "Mastering Ethereum" O"Reilly Media Inc, 2019	Laptop, PPT

	Ethereum Development Environment: Overview, Test networks, Components of a private network, starting up the private network, mining on the private network, Remix IDE, MetaMask, Using MetaMask and Remix IDE to deploy a smart contract			
PSCS3011 Advanced Computing (Web3 Technologies) Unit-III	**Serenity, Ethereum, Hyperledger & Tokenization** **Web3:** Exploring Web3 with Geth, Contract deployment, interacting with contracts via frontends **Development frameworks:** Serenity, Ethereum 2.0—an overview, Development, phases, Architecture **Serenity:** Ethereum 2.0—an overview, Development phases, Architecture **Hyperledger:** Projects under Hyperledger, Hyperledger reference architecture, Hyperledger Fabric, Hyperledger Sawtooth, Setting up a sawtooth development environment. **Tokenization:** Tokenization on a blockchain, Types of tokens, Process of tokenization, Token offerings, Token standards, Trading and finance, DeFi, Building an ERC-20 token, emerging concepts	15L	Andreas M. Antonopoulos, Dr.Gavin wood "Mastering Ethereum" O"Reilly Media Inc, 2019	Laptop, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. P. PALAV (MANE)** DEPARTMENT: **INFORMATION TECHNOLOGY**

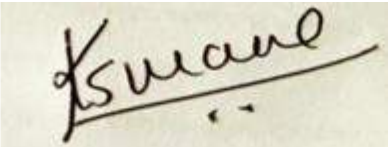
CLASS:____**MSC (CS)** ___ SEMESTER:____**I**______ MONTH: **SEPTEMBER-DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to :

- **Review the fundamental concepts of a digital image processing system.**
- **Analyze images in the frequency domain using various transforms.**
- **Interpret image segmentation and representation techniques.**
- **Understand the relevant aspects of digital image representation and their practical implications.**
- **Have the ability to design pointwise intensity transformations to meet stated specifications and understand 2-D convolution, the 2-D DFT, and have the ability to design systems using these concepts.**
- **Knowledge of Perform frequency domain operations on images.**
- **Ability to apply image segmentation and extract image featu**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS103 Applied Signal and Image Processing	**Structural and Morphological Operations:** Edge Detection: Sobel, Canny Prewitt, Robert edge detection techniques, LoG and DoG filters, Image Pyramids: Gaussian Pyramid, Laplacian Pyramid Morphological Image Processing: Erosion, Dilation, Opening and closing, Hit-or-Miss Transformation, Skeletonizing, Computing	07 08	Digital Image Processing by Rafael Gonzalez & Richard Woods, Pearson; 4th edition, 2018	Blackboard, Chalk and Duster. PPts.

Unit No -03	the 15L 15 convex hull, removing small objects, White and black top-hats, Extracting the boundary, Grayscale operations			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15			
PSCS103 Applied Signal and Image Processing **Unit No -04**	**Advanced Image Processing Operations** Extracting Image Features and Descriptors: Feature detector versus descriptors, Boundary Processing and feature descriptor, Principal Components, Harris Corner Detector, Blob detector, Histogram of Oriented Gradients, Scale-invariant feature transforms, Haar-like features Image Segmentation: Hough Transform for detecting lines and circles, Thresholding and Otsu's segmentation, Edge-based/regionbased segmentation Region growing, Region splitting and Merging, Watershed algorithm, Active Contours, morphological snakes, and GrabCut algorithms	07 04 04	Digital Image Processing by Rafael Gonzalez & Richard Woods, Pearson; 4th edition, 2018	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15			



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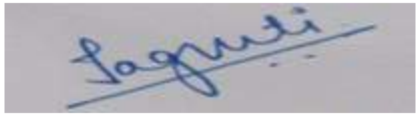

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: COMPUTER SCIENCE CLASS: MSc.Cs(Part II)

SEMESTER: IV MONTH: FEBRUARY-MAY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- Knowledge about the fundamentals of Robotics and its applications
- Ability to use Raspberry Pi for programming Robotics
- Ability to apply robotics in speech and vision problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS401 Unit 1, **Robotics**	**Introduction to Robotics** Introduction to Robotics: What is a robot? Examples of Advanced and impressive robots, Robots in the home, Robots in industry	07	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation
	Robotics in Action Exploring Robot Building Blocks - Code and Electronics Technical requirements, Introducing the Raspberry Pi - Starting with Raspbian Technical requirements, Raspberry Pi controller on a robot.	08	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation
PSCS401 Unit 3, **Robotics**	**Servo Motors** Use and control of servo motors, pan, and tilt mechanism. Distance sensors, Introduction to distance sensors and their usage	07	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation

	Connecting distance sensors to robot and their testing. Creating a smart object avoidance behavior. Creating a menu to select different robot behaviors, Distance and speed measuring sensors—encoders and odometry	08	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:IV

MONTH: **FEB-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the context and use of neural networks and deep learning ● Understand the tools and libraries for deep learning ● Have a working knowledge of neural networks and deep learning ● Explore the parameters for neural networks ● Identify emerging applications of deep learning

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PSCS402 Advanced Deep Learning UNIT 1: Neural Network for Deep Learning	Optimization and Neural Network: Review of Neural Network fundamentals, the problem of Learning, Implementing single Neuron-Linear and Logistic Regression, Deep Learning: Fundamentals, Deep Learning Applications, Popular open-source libraries for deep learning Feed- Forward Networks: Networks architecture and Matrix notation, Overfitting, Multiclass Classification with Feed-Forward Neural Networks, Estimating Memory requirement of Models	15	Advanced Deep Learning with Keras, Rowel Atienza, Packt Publication, 2018	power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV**----DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:II

MONTH: **FEB-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

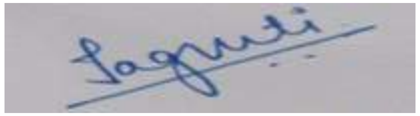
The learners will be able to :

- Understand core concepts of ML through implementations in python.
- Working with diverse toolkits and packages useful for developing projects In ML
- Implement and understand deep learning and ANNs useful for industry today.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 Applied Machine and Deep Learning **UNIT 1: (Ability Enhancement)**	What is Machine Learning? Why use Machine Learning? Types of Machine Learning, Supervised Learning, Unsupervised Learning & Reinforcement Learning. Challenges of Machine Learning, Testing Learning, Testing and Validation A First Application: Classification, MNIST Dataset, Performance	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by	power point

The Fundamentals of Machine Learning	Measures, Confusion Matrix, Precision and Recall, Precision/Recall Tradeoff, The ROC Curve, Multiclass Classification, Error Analysis.		AurélienGéron, Second Edition, O'reilly 2019	
PSCS201 Applied Machine and Deep Learning **UNIT 2: Training Models**	Linear Regression, Gradient Descent, Batch Gradient Descent, Stochastic Gradient Descent, Mini-batch Gradient Descent, Polynomial Regression, Learning Curves, The Bias/Variance Tradeoff, Ridge Regression, Lasso Regression, Early Stopping, Logistic Regression, Decision Boundaries, Softmax Regression, Cross Entropy.	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by AurélienGéron, Second Edition, O'reilly 2019	power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **II** MONTH: **February - April** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understand core concepts of ML through implementations in python.
- Working with diverse toolkits and packages useful for developing projects in ML
- Implement and understand deep learning and ANNs useful for industry today.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 **Paper I** **Applied Machine and Deep Learning** **UNIT III**	**UNIT 3: Support Vector Machines** Linear SVM Classification, Soft Margin Classification, Nonlinear SVM Classification, Polynomial Kernel, Gaussian RBF Kernel, SVM Regression, Decision Trees, Training and Visualizing a Decision Tree, Making Predictions, The CART Training Algorithm, Gini Impurity vs Entropy, Regularization Hyperparameters.	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by AurélienGéron, Second Edition, O'reilly 2019	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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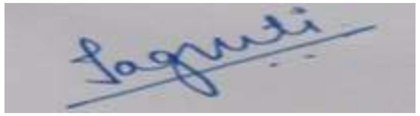
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 **Paper I** **Applied Machine and Deep Learning** **UNIT IV**	**UNIT 4: (Skill Enhancement)** **Fundamentals of Deep Learning** What is Deep Learning? Need Deep Learning? Introduction to Artificial Neural Network (ANN), Core components of neural networks, Multi-Layer Perceptron (MLP), Activation functions, Sigmoid, Rectified Linear Unit (ReLU), Introduction to Tensors and Operations, Tensorflow framework.	15	Deep Learning with Python by François Chollet Published by Manning 2018	Microsoft PowerPoint Presentation



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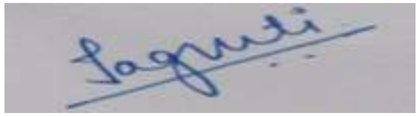

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **IV** MONTH: **February- April** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Knowledge of implementing neural network architectures for deep learning.
- Skill to implement regularization and optimization of neural network
- Ability to implement advanced networks like CNN, RNN and GAN
- Implement deep learning for advanced applications like object identification, speech, and

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS402 **Paper II** **Advanced Deep Learning (Online Mode) UNIT II**	**Convolutional and Recurrent Networks for Deep Learning** **Regularization:** Complex Network and Overfitting, Regularization and related concepts, Hyperparameter tuning **Convolutional Neural Networks:**Kernels and Filters,Building Blocks of CNN, Inception Network, Transfer Learning **Recurrent Neural Network:** Notation and Idea of recurrent neural networks, RNN Topologies, backpropagation through time, vanishing and exploding gradients	15	Python Deep Learning, Valentino Zocca, Packt Publication, 2017 Applied Deep Learning, with TensorFlow 2, Umberto Michelucci, Apress, 2022	Google Meet Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS402 **Paper II** **Advanced Deep Learning (Online Mode)** **UNIT III**	**Advanced Concepts for Deep Learning** **Autoencoders**: Introduction, Network Design, Regularization in Autoencoders, Denoising autoencoders, Feed-Forward Autoencoders, spare and Contractive autoencoders **Unsupervised Feature Learning:** Hopfield networks and Boltzmann machines, restricted Boltzmann machine, Deep belief networks **Generative Adversarial Networks (GANs):**Introduction, training algorithms, Conditional GANs, applications, Deep convolutional generative adversarial networks	15	Python Deep Learning, Valentino Zocca, Packt Publication, 2017 Applied Deep Learning, with TensorFlow 2, Umberto Michelucci, Apress, 2022	Google Meet Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS

CLASS: M.Sc. CS SEMESTER: II MONTH: APRIL TO JUNE ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To Understand the difference between Web Mining and Data mining.
- To Understand the Basics and Needs of Web Mining.
- To Understand Web-based Data.
- To Understand Opinion Mining and Sentiment classification.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Mining (PSCS203) Unit III	Social Network & Link Analysis Link Analysis, Scrapy using python (without pipelining), Social Network Analysis	8	Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data by Bing Liu (Springer Publications) 2017	PPT, Chalk and black board
	Co-Citation and Bibliographic Coupling, PageRank, HITS, Community Discovery	7		
Web Mining (PSCS203) Unit IV	Webpage crawlers and usage mining Basic Crawler Algorithm, Implementation Issues, Universal Crawlers, Focused Crawlers, Topical Crawlers, Crawler Ethics and Conflicts.	8	Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data by Bing Liu (Springer Publications) 2017	PPT, Chalk and black board
	Data modelling and webpage usage mining., Discovery and analysis of web usage patterns, Recommender systems and collaborative filtering, query log mining	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS

CLASS: M.Sc. CS SEMESTER: IV MONTH: FEBRUARY-MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
- Knowledge about the fundamentals of Robotics and its applications
- Ability to use Raspberry Pi for programming Robotics
- Ability to apply robotics in speech and vision problems

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
(PSCS401) Unit II Robotics	**Building Robot Basics:** **Technical requirements**: Robot chassis kit with wheels and motors, a motor controller, Powering the robot, Test fitting the robot, Assembling the base.	8	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Google Meet, Jam board, PPT
	Robot Programming: Programming technique, adding line sensors to our robot, creating line-sensing behaviour, and Programming RGB Strips in robot.	7		
(PSCS401) Unit IV Robotics	**Robot Vision and Voice Communication (Skill Enhancement)** **Robotics setup:** Setting up a Raspberry Pi Camera on the robot (software and hardware), Check the robot vision on a phone or laptop, Mask images with RGB strips	8	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Google Meet, Jam board, PPT
	Robotics for Vision and Voice Applications: Colors, masking, and filtering – chasing coloured objects, detecting faces with Haar cascades, Finding objects in an image, Voice Communication with a robot	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pranali Dayanand Thakare DEPARTMENT: Information Technology CLASS:MScCS

SEMESTER: II MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- The course is designed to enable students, to understand and implement IoT in industry.
- Design and executive projects in IoT with Automatic Identification and Data Capture.
- Understand basic components and functionalities of Embedded System including its hardware.
- Effectively achieve collaboration of various technologies in IoT and enable the same using software programming like Python, Embedded C etc.
- Understand case studies in IoT and replicate the same for more detailed analysis of the IoT development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS204 Embedded and IoT **UNIT _1**	**UNIT 1: Embedded System Basics** **Introduction to Embedded Systems, Design of Embedded Systems,** **Memory Architecture, Input/Output. Basic electronics: Semiconductors, Transistors, BJT, Flip Flops, Resistors, Capacitors,** **CMOS, MOSFET, FPGA, Relays. Microcontrollers, UART Communications, SPI-peripherals interface, I2C communication,** **Wireless Sensor Network (WSN)**	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT
PSCS204 Embedded and IoT	**UNIT 4: (Skill Enhancement)** **Security, Communication and Data analytics in IOT** **IoT Security: Security constraints in IoT systems, security**	15L	Enabling the Internet of Things Fundamentals, Design and Applications by	Laptop, PPT

UNIT _4	**requirements of IoT systems, IoT attacks, security threats at each** **layer of IoT architecture, design secure IoT system for specific** **application** **Social IoT: Nature of social relationships among IoT Devices,** **functionality of different components of social IoT architecture, social** **aspects of smart devices in IoT applications** **Packet Tracer and IoT: Basics of Packet Tracer and Blockly** **programming language, design simple IoT projects in Packet Tracer.**		Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS:MScCS

SEMESTER: II MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- The course is designed to enable students, to understand and implement IoT in industry.
- Design and executive projects in IoT with Automatic Identification and Data Capture.
- Understand basic components and functionalities of Embedded System including its hardware.
- Effectively achieve collaboration of various technologies in IoT and enable the same using software programming like Python, Embedded C etc.
- Understand case studies in IoT and replicate the same for more detailed analysis of the IoT development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS204 Embedded and IoT Technology Unit-II	**UNIT 2: Basics of IOTethics and Issue** **Introduction IoT**:Evolution of the IoT concept, vision and definition of IoT, basic characteristics of IoT, distinguish the IoT from other related technologies, IoT enablers, IoT architectures, pros and cons of IoT, IoT architecture concepts for specific IoT applications. **IoT Building Blocks -Hardware and Software:**The basic IoT building blocks, smart thing components and capabilities, basics of Packet Tracer with reference to IoT, basics of IoT gateway, Cloud, and analytics **Sensing Principles and Wireless Sensor Network:**Sensor fundamentals and classification of sensors, physical principles of some common sensors, basics of WSNs, WSN architecture and types, layer-level functionality of WSN protocol stack.	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT

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PSCS204 Embedded and IoT Technology Unit-III	**UNIT 3: Advanced IOT Technologies** **IoT Gateway:**IoT architecture domains, IoT gateway architecture, IoT gateway functionalities, IoT gateway selection criteria, IoT gateway and edge computing, edge computing-based solution for specific IoT applications **IoT Protocol Stack**:Mapping of IoT protocols to layered IoT architecture, functionality of infrastructure, service discovery, and application layer protocols of IoT protocol stack **IoT Cloud and Fog Computing:**Components of IoT Cloud architecture, usage of application domains of IoT Cloud platforms, layered architecture of Fog computing, distinguish Fog computing from other related terms **IoT Applications:**Main applications of IoT, Implementation details of various IoT application domains	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Avinash Dilip Sonawan DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: September to December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

• Introducing the basic concepts of Internet and web design to learners.
• Providing brief knowledge about HTML5 concepts.
• Giving insight of the Page layout and navigation with HTML5.
• Making students aware about use of Tables, Forms and Media with HTML5.
• Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit I	Internet and the World Wide Web: What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address,	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla. search engine, web saver – apache, IIS, proxy server, HTTP protocol What Is Web Design?: Defining Web Design, Web Design Themes, Learning Web Design	04		

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Web Technology (USDS103) Unit I	User-Centered Design: Usability, Who Are Web Users? Common User Characteristics, Memory, Response and Reaction Times, Dealing with Stimulus, Movement Capabilities, The User's World, General Types of Users, Web Conventions, Accessibility, Building a Usable Site HTML5: Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors.	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
Web Technology (USDS103) Unit II	**HTML5 Page layout and navigation:** Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: 12 creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

A.D. Sonawane

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

• Introducing the basic concepts of Internet and web design to learners.
• Providing brief knowledge about HTML5 concepts.
• Giving insight of the Page layout and navigation with HTML5.
• Making students aware about use of Tables, Forms and Media with HTML5.
• Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Web Technology (USDS103) Unit III	**Introduction to Style Sheets** : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles, Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets **Formatting Text by Using Style Sheets**: Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining, Creating Inline Spans , Adjusting Spacing Between Letters	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	Formatting Paragraphs by Using Style Sheets: Indenting Paragraphs, Applying a Border to a Paragraph, Specifying a Border Style, Setting Border Padding, Specifying Border Width and Color, Formatting Border Sides Individually,	04		

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	Setting All Border Attributes at Once, Specifying the Horizontal Alignment of a Paragraph, Specifying Vertical Space within a Paragraph **Displaying Graphics**: Selecting a Graphics Format, Preparing Graphics for Web Use, Inserting Graphics, Arranging Elements on the Page, Controlling Image Size and Padding, Hyperlinking from Graphics, Using Thumbnail Graphics, Including Alternate Text for Graphics, Adding Figure Captions			

Web Technology (USDS103) Unit III	**Java Script:** Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, regExp **Document and its associated objects**: document, document object methods, Link, Area, Anchor, Image, Layer	04	JavaScript 2.0: The Complete Reference Thomas Powell and Fritz Schneider TMH 2 nd 2004	Black board and chalk
	Events and Event Handlers : General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: DS

CLASS: FYDS SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To discuss various components of communication, explain how non-verbal communication techniques enhance communication and explain the barriers to communication.
- To discuss various business activities which are essential at workplace. To explain business communication covering the structure and layout of a letter, planning of a letter and use of language.
- To explain the use of agenda and minutes for effective functioning of any organisation.
- To direct the learners' attention to the significance of effective writing and the importance and structure of reports.
- To explain to interpret information ethics (IE) as the branch of the philosophy of information that investigates, in a broad sense, the ethical impact of Information and Communication Technologies (ICTs) on human life and society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS104:Business Communication and Information Ethics	**Interpretation of Communication** Basics of communication, Non-verbal communication, Barriers to communication	**6**	**Professional Communication by Aruna Koneru**	**Blackboard and chalk** **PPT , Projector**
Unit 1	**Business communication at workplace** Letter components and layout, Planning a letter, Process of letter writing	**6**		

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USDS104: Business Communication and Information Ethics Unit 2	**Business communication at workplace** Email communication, Memos and memo reports, Employment communication. Notice, Agenda and minutes of meeting, Brochures.	**12**	**Business Communication by A. C.“Buddy” Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk PPT , Projector**
USDS104: Business Communication and Information Ethics Unit 3	**Report Writing:** Effective writing, Types of business reports, Structure of reports, Gathering Information	**12**	**Business Communication by A. C.“Buddy” Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 4	**Report Writing:** Organisation of material, writing abstracts and summaries, Writing definitions, Visual aids, User Instruction Manual.	**12**	**Business Communication by A. C.“Buddy” Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 5	**Information Ethics** Ethics after the information revolution, what is information ethics? The method of abstraction	**12**	**The Ethics of Information by Luciano Floridi**	**Blackboard and chalk**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYDS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand the components of environments and the need to conserve it
- Students should be able to know the relationship between each and every organism and identify the problem which the world is facing.
- To select, the appropriate life style to save the life on earth

Unit 3	**Environmental Pollution** Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Solid Waste Management, Hazardous Waste Management, Pollution Prevention, Disaster Management	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk** **PPT , Projector**
	Human Population and the Environment Population Growth, Human Rights, Value Education, HIV/AIDS, Environment and Human Health, Family Welfare Programmes, Women and Child Welfare, Role of Information Technology in Environment and Human Health	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk** **PPT , Projector**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To learn the Programming fundamentals using Python
- To learn the concepts and usage data types, variables and other basic elements of Python
- To understand operators and control statements in Python
- To learn using arrays and strings in Python.
- To understand IPython architecture for Python.
- To understand data Science Tools
- To learn plotting data using appropriate Python visualization libraries

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming (USDS102) Unit I	Introduction to Python Language: Overview, Features of Python, Execution of a Python Program, Innards of Python, Frozen Binaries, Python Interpreter, Comparison of Python with C and Java, Installing Python, Writing & Executing, IDLE	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Data Types, Variables And Other Basic Elements: Comments, Docstrings, Data types-Numeric, Compound, Boolean, Dictionary, Sets, Mapping, Basic Elements of Python, Variables	03		
	Input and Output Operations: Input Function, Output Statements,Command Line Arguments	03		

	Control Statements: Control Statements- Loop Statement, The else Suite, break Statement, continue Statement, pass Statement, assert Statement, return Statement	03		
Introduction to Programming (USDS102) Unit II	Functions: Defining & Calling a Function, Returning Results, Returning Multiple Values, Built-in Functions, Parameters and Arguments, Recursive Functions, Anonymous or Lambda Functions	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Operators: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	03		
	Arrays: Creating Arrays, Indexing and Slicing, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic Slicing. Advanced Indexing. Dimensions of Arrays, Attributes of an Array	03		
	Strings: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing & Slicing, Repeating & Concatenation of Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Strings are Immutable, Splitting and Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting & Searching in the Strings, Formatting the Strings, Working with Characters	03		
Introduction to Programming (USDS102) Unit III	Lists and Tuples: Lists, List Functions and Methods, List Operations, Tuples	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Ordered Dictionaries	03		

	Regular Expressions: What is a Regular Expression? Sequence Characters in Regular Expressions, Quantifiers in Regular Expressions, Special Characters in Regular Expressions, Using Regular Expression on Files, Retrieving Information from an HTML File	03		
	Date and Time in Python: Date and Time, Date and Time Now, Combining Date and Time, Formatting Dates and Times, Finding Durations using "timedelta", Comparing Two Dates, Sorting Dates, Stopping Execution Temporarily, Knowing the Time taken by a Program, Working with Calendar Module	03		
Introduction to Programming (USDS102) Unit IV	IPython: Beyond Normal Python, Help and Documentation in IPython, Keyboard Shortcuts in the IPython Shell, IPython Magic Commands, Input and Output History, IPython and Shell Commands, Errors and Debugging, Profiling and Timing Code	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk
	Introduction to NumPy: Understanding Data Types in Python, The Basics of NumPy Arrays, Computation on NumPy Arrays: Universal Functions, Aggregations: Min, Max, and Everything In Between, Computation on Arrays: Broadcasting, Comparisons, Masks, and Boolean Logic, Fancy Indexing, Sorting Arrays, Structured Data: NumPy's Structured Arrays	06		
Introduction to Programming (USDS102) Unit V	Data Manipulation with Pandas: Introducing Pandas Objects, Data Indexing and Selection, Operating on Data in Pandas, Handling Missing Data, Hierarchical Indexing, Combining Datasets: Concat and Append, Combining Datasets: Merge and Join, Aggregation and Grouping, Pivot Tables, Vectorized String Operations, Working with	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk

	Time Series. High-Performance Pandas: eval( ) and query( )			
	Visualization with Matplotlib: Simple Line Plots, Simple Scatter Plots, Visualizing Errors, Density and Contour Plots, Histograms, Binnings, and Density, Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Customizing Ticks, Customizing Matplotlib: Configurations and Stylesheets, Three-Dimensional Plotting in Matplotlib, Geographic Data with Basemap, Visualization with Seaborn	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data Science

CLASS: Fybsc(DS)

SEMESTER: 1

MONTH: September to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- To understand the use and importance of statistical data by tabulating and implementing sampling methods.
- identify association between the variables as well as computing consistent and inconsistent data.
- compute level of measures and apply as well as interpret data into graphs.
- Apply measure of central tendency to minimize the sum of squared deviation.
- Able to understand the basic assumption behind regression analysis and determine the model is significance as well as able to apply various techniques for the modelling.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **<u>Unit 1</u>**	**Introduction to Statistics and Use in Business:** ➢ Meaning of Statistics as a Science, Importance of Statistics, ➢ Scope of Statistics : In the field of Industry, Biological Sciences,Medical Sciences, Economics Sciences, Social,	**5**	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second	Black board, chalk and Duster

	Sciences,Management Sciences, Agriculture, Insurance, InformationTechnology, Education and Psychology. ➢ Statistical organizations in India and their functions: CSO, ISI,NSS, IIPS (Devnar, Mumbai), Bureau of Economics andstatistics. ➢ Case Study.		edition	

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	Types of Data and Data Condensation: ➢ Method of sampling: Concept of population and sample. Finite Infinite population ,Notion ofSRS,SRSWOR and SRSWR ➢ Types of Characteristics, Different types of scales: nominal,ordinal, interval and ratio scale. Linear and circular scale. ➢ Types of Data: Primary data, Secondary data, Collection of data and concept of questionnaire and a schedule, Cross-sectional data,time series data, failure data, industrial data, and directional data. ➢ Tabulation. ➢ Dichotomous classification- for two and	4	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	three attributes, Verification for consistency. ➢ Association of attributes: Yule's coefficient of association Q. ➢ Yule's coefficient of Colligation, ➢ Notion of a statistical population: Finite population infinite ➢ population,homogeneous population and heterogeneous population. Notion of sample, random sample and non-random sample.			
	Presentation of Data ➢ Univariate frequency distribution of discrete and continuous variables. ➢ Cumulative frequency distribution and relative frequencydistribution. ➢ Graphical representation of frequency distribution by Histogram,frequency polygon, Cumulative frequency curve. Stem and leafdiagram ➢ Check sheet, Parato diagram	3	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

Unit 2	**Measures of central tendencies** ➢ Concept of central tendency of data. Requirements of good measure ➢ Locational averages: Median, Mode, and Partition Values: Quartiles,Deciles, and	6	Statistical Methods, An n itroductory Text,Medhi J. New Age Internation alLtd. Second Edition	Black board, chalk and Duster

	Percentiles, Box Plot, Percentile ranks ➢ Mathematical averages Arithmetic mean (Simple, weighted mean, combinedmean), Geometricmean, Harmonic mean ➢ Empirical relation between mean, median and mode ➢ Merits and demerits of using different measures &their applicability ➢ Partition Values : Quartiles, Deciles and Percentiles, Box Plot, ➢ Percentile ranks			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

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	Measures of Dispersion, Skewness & Kurtosis ➢ Concept of dispersion. Requirements of good measure. ➢ Absolute and Relative measures of dispersion: Range, Quartile Deviation, Mean absolute deviation, Standard deviation. ➢ Variance and Combined variance, raw moments and central moments and relations between them. Their properties ➢ Concept of Skewness and	6	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	Kurtosis: Measures of Skewness: KarlPearson’s, Bowley’s and Coefficient of skewness based on moments. Measure of Kurtosis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

Unit 3	**Mean square deviation:** ➢ **Definition, minimality property of mean square deviation (with proof),** ➢ **Variance and standard deviation: Definition, merits and demerits, effect of change of origin and scale, combined variance (derivation for 2 groups), combined standard deviation, generalization for n groups.**	7	Statistical Methods And introductory Text, Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

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	➢ **Measures of dispersion for comparison: coefficient of range, coefficient of quartile deviation and coefficient of mean deviation,coefficient of variation (C.V.).**	5	Statistical Methods, And introductory Text ,Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lecture

SIGNATURE OF TEACHER **SIGNATURE OF THEH.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(Data Science) Div:A SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: learn the essential Python data structures; To learn the significant Python implementation of popular data structures; To learn about various data structure algorithms and design paradigms; To acquire knowledge of how to create complex data structures; To acquire basic understanding of complex data structures such as trees and graphs and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USDS302 unit:1, Title: Data Structures and Algorithms Using Python	**Python Objects & Object-Oriented Programming**: Goals, Principles, and Patterns, Overview of data types and objects, Classes and object programming, Class Definitions, Inheritance, Data encapsulation and properties, Namespaces and Object-Orientation, Shallow and Deep Copying	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Python Data Types and Strutures: Modules for data structures and algorithms- Collections, Deques, ChainMap objects Counter, Counter objects, Ordered dictionaries defaultdict, Learning about named tuples Arrays.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Principles of Algorithm Design: An introduction to algorithms, Algorithm design paradigms Recursion and backtracking, Backtracking, Divide and conquer - long multiplication The recursive approach Runtime analysis Asymptotic analysis Big O notation, Composing complexity classes Omega notation, Theta notation, Amortized analysis.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard

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Paper: USDS302 unit:2, Title: Data Structures and Algorithms Using Python	**Lists and Pointer Structures**:Arrays-Pointer structures. **Singly linked lists-**Singly linked list class, The append operation, A faster append operation, Getting the size of the list, Improving list traversal, Deleting nodes, List search, Clearing a list	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Doubly linked lists-A doubly linked list node Doubly linked list class Append operation The delete operation List search.	3	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Circular lists-Appending elements, Deleting an element in a circular list, Iterating through a circular list **Stacks:** Stack implementation, Push operation, Pop operation, Peek operation, Bracket-matching application,	5	Hands-On Data Structures andAlgorithms with Python	Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYDS

SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 1	THE COMPELLING NEED FOR DATA WAREHOUSING: Escalating Need for Strategic Information, Failures of Past Decision-Support Systems, Operational Versus Decision-Support Systems, Data Warehousing—The Only Viable Solution, Data Warehouse Defined, The Data Warehousing Movement, Evolution of Business Intelligence	3	DATA WAREHOUSING FUNDAMENTALS FOR IT PROFESSIONALS BY- PAULRAJ PONNIAH	BLACK BOARD AND CHALK
	DATA WAREHOUSE: The Building Blocks: Defining Features, Data Warehouses and Data Marts, Architectural Types, Overview of The Components, Metadata in The Data Warehouse	3		
	TRENDS IN DATA WAREHOUSING: Continued Growth in Data Warehousing, Significant Trends, Emergence of Standards, Web-Enabled Data Warehouse	2		

	ARCHITECTURAL COMPONENTS: Understanding Data Warehouse Architecture, Distinguishing Characteristics, Architectural Framework, Technical Architecture, Architectural Types	2		
	THE SIGNIFICANT ROLE OF METADATA: Why Metadata Is Important, Metadata Types By Functional Areas, Business Metadata, 12 Books and References: Technical Metadata, How To Provide Metadata	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT: CS

CLASS: SYDS SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 3	**INTRODUCTION TO DATA MINING**: Introduction to Data Mining, Need of Data Mining, What Can Data Mining Do and Not Do? Data Mining Applications, Data Mining Process, Data Mining Techniques, Difference between Data Mining and Machine Learning	4	Data Mining and Data Warehousing : Principles and Practical Techniques- by Parteek Bhatia	BLACK BOARD AND CHALK
	BEGINNING WITH WEKA AND IRIS DATASET IN R: About Weka, Installing Weka, Understanding Fisher‘s Iris Flower Dataset, Preparing the Dataset, Understanding A RFF, Working with a Dataset in Weka, Working with the Iris dataset in R Data Preprocessing: Need for Data Preprocessing, Data Preprocessing Methods	4		
	CLASSIFICATION: Introduction to Classification, Types of Classification,	4		

	Input and Output Attributes, Guidelines for Size and Quality of the Training Dataset, Introduction to the Decision Tree Classifier, Naive Bayes Method, Understanding Metrics to Assess the Quality of Classifier			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Teaching plan sycs sem 3 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data science

CLASS: S.Y.B.Sc.(DS)

SEMESTER: June to September

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS305 **Linear Algebra and Discrete Mathematics** **Unit 1**	Matrices and Gaussian Elimination: ● Introduction, The Geometry of Linear Equations, ● An Example of Gaussian Elimination, ● Matrix Notation and Matrix Multiplication,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication	Black board, chalk and duster

			Fourth Edition	
	• Triangular Factors and Row Exchanges, • Inverses and Transposes, • Special Matrices and Applications	3	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	Vector Spaces: • Vector Spaces and Subspaces, • Solving Ax= 0 and Ax= b,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• Linear Independence, • Basis, and Dimension,	2	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• The Four Fundamental Subspaces, • Graphs and Networks, Linear Transformations	2	Linear Algebra and Its Applications Gilbert Strang Cengage	Black board, chalk and duster

			Publication Fourth Edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Orthogonality: ● Orthogonal Vectors and Subspaces, ● Cosines and Projections onto Lines, ● Projections and Least Squares,	4		Black board,chalk and duster
	● Orthogonal Bases ● and Gram-Schmidt, The Fast Fourier Transform	4		Black board,chalk and duster
	Determinants: ● Introduction, ● Properties of the Determinant, ● Formulas for the Determinant,	4		Black board,chalk and duster
USCS 302 **Linear Algebra and Discrete Mathematics Unit 2**	● Applications of Determinants	3		Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra and Discrete Mathematics** **<u>Unit 3</u>**				
	•	3		Black board, chalk and duster
	•	4		Black board, chalk and duster
	•	5		Black board, chalk and duster
	•	3		Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(DS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:1. Understand concept of clustering.

2. To align the Data Mining techniques for analyzing the datasets using tools like Weka, R or Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	CLUSTER ANALYSIS: Introduction to Cluster Analysis, Applications of Cluster Analysis, Desired Features of Clustering, Distance Metrics, Major Clustering Methods/Algorithms, Partitioning Clustering,	4	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	HIERARCHICAL CLUSTERING ALGORITHMS: Web Mining and Search Engines: Introduction, Web Content Mining	4		
	Web Usage Mining, Web Structure Mining, Hyperlink Induced Topic Search algorithm, Introduction to Modern Search Engines, Working of a Search Engine, PageRank Algorithm, Precision and Recall	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	INTRODUCTION TO ASSOCIATION RULE MINING: Defining Association Rule Mining, Representations of Items for Association Mining, The Metrics to Evaluate the Strength of Association Rules, The Naive Algorithm for Finding Association Rules, Approaches for Transaction Database Storage	6	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	THE APRIORI ALGORITHM, Closed and Maximal Itemsets, The Apriori–TID Algorithm for Generating Association Mining Rules, Direct Hashing and Pruning (DHP), Dynamic Itemset Counting (DIC), Mining Frequent Patterns without Candidate Generation (FP Growth)	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: DS

CLASS: SYDS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- To learn the essential Python data structures.
- To learn the significant Python implementation of popular data structures
- To learn about various data structure algorithms and design paradigms
- To acquire knowledge of how to create complex data structures.
- To acquire basic understanding of complex data structures such as trees and graphs and their applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit III	**Queues:** List-based queues, Stack-based queues Node-based queues, Application of queues Media player queues	03	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Trees: Terminology, Tree nodes, Tree traversal, Depth-first traversal In-order traversal and infix notation, Pre-order traversal and prefix notation, Post-order traversal and postfix notation, Breadth-first traversal	04		
	Binary trees-Binary search trees, Binary search tree implementation, Binary search tree operations, Finding the minimum and maximum nodes Inserting nodes Deleting nodes, Searching the tree, Benefits of a binary search tree, Balancing trees, Expression trees, Parsing a reverse Polish expression, Heaps, Ternary search tree	05		

DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit IV	**Hashing and Symbol Tables**: Hashing- Perfect hashing functions Hash tables-Storing elements in a hash table, Retrieving elements from the hash table, Testing the hash table, Using [] with the hash table, Non-string keys, Growing a hash table, Open addressing, Chaining, Symbol tables	06	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Graphs and Other Algorithms: Graphs-Directed and undirected graphs, Weighted graphs, Graph representations, Adjacency lists, Adjacency matrices, Graph traversals-Breadth-first traversal, Depth-first search, Other useful graph methods, Priority queues and heaps- Insert operation, Pop Operation, Selection Algorithm	06		
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit V	**Sorting:** Sorting algorithms- Bubble sort algorithms, Insertion sort algorithms, Selection sort algorithms, Quick sort algorithms	04	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Selection Algorithms: Selection by sorting, Randomized selection Quick Select, Deterministic selection-Pivot selection Median of medians, Partitioning step	04		
	Pattern Matching Algorithms: The brute-force algorithm, The RabinKarp algorithm	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find the eigenvalues and eigenvectors of given matrix.
- Check whether the given matrix is diagonalizable.
- Solve the difference equation using eigenvalues & eigenvectors.
- Solve the differential equation using eigenvalues & eigenvectors.
- Understand the concept of similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS Unit 3 Eigenvalues & Eigenvectors	➢ Finding eigenvalues & eigenvectors ➢ Diagonalisation of a matrix ➢ Difference equations and powers Ak ➢ Differential equations & eAt ➢ Complex matrices ➢ Similarity transformations	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: October-November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the minima, maxima and saddle points of the given function of two variables.
- Test whether the given quadratic form is positive definite.
- Find the singular value decomposition of the given matrix.
- Find the minimum value of the given quadratic form.
- Understand the concept of matrix norm, condition number and spectral norm.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
LINEAR ALGEBRA&DISCRETE MATHEMATICS (Unit 4) Positive definite matrices & Computation with matrices	➢ Minima, Maxima & Saddle points ➢ Tests for positive definiteness ➢ Singular value decomposition ➢ Minimum principles ➢ Finite element method ➢ Matrix norm & condition number	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 5 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: November-December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the solution of linear inequalities graphically and numerically.
- Find out the solution of LPP using simplex method.
- Find the dual of the given primal problem.
- Understand various network models.
- Find out the saddle point of the given game problem.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS **(Unit 5)** LPP & Game theory	➢ Linear inequalities ➢ The simplex method ➢ The dual problem ➢ Network models ➢ Game theory	2 3ss 2 2 3	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Shreya

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: DATA SCIENCE

CLASS:S.Y.BSC(D.S) SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:RESEARCH METHODOLOGY

LEARNING OBJECTIVE/S:

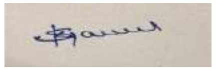
The learners will be able to: To impart analytical skill in solving complex problems. To foster the ability to critically think in developing robust, extensible and highly maintainable solutions to simple and complex problems. To explore the unknown and unlock new possibilities in different dimensions of the system. To portray accurately the characteristics of a particular individual, situation or a group under study.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
RESEARCH METHODOLOGY USDS301 Unit-2	**Sampling Design:** Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample?, Random Sample from an Infinite Universe, Complex Random Sampling Designs	4	Research Methodology – Methods and techniques	PowerPoint Presentation

	Measurement and Scaling Techniques: Measurement in Research, Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling, Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques	4	C. R. Kothari New Age International (P) Ltd.,	
	Methods of Data Collection: Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method, (i) Guidelines for Constructing Questionnaire/Schedule (ii) Guidelines for Successful Interviewing (iii) Difference between Survey and Experiment	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		
RESEARCH METHODOLOGY USDS301 Unit-4	**Interpretation of Data and Paper Writing** – Layout of a Research Paper, Journals in Computer Science, Impact factor of Journals, When and where to publish ?, UGC-CARE, Web of Science, SCOPUS, IEEE, ACM, Ethical issues related to publishing, Copyright, Data Privacy, Plagiarism and Self-Plagiarism, Software for detection of Plagiarism. ShodhShudhhi (PDS), smallseotools.com Use of Encyclopedias, Research Guides, Handbook etc., Academic Databases for Computer Science and Information Technology Discipline. Google Scholar, shodhganga, IEEE Xplore, ResearchGate, IDELS, DASH	8	Research Methodology – Methods and techniques C. R. Kothari New Age International (P) Ltd.,	PowerPoint Presentation
	Use of tools / techniques for Research: Chicago, Turabian, MLA and APA Style, Reference Management Software like EndNote, Zotero or Mendeley; Software for paper formatting like LaTeX/MS Office/	8		

	Scrivener/Open Office/Google Doc/DropBox Paper.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		

SIGNATURE OF THE STAFF



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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data Science

CLASS: Fybsc(DS)

SEMESTER: 1

MONTH: September to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- To understand the use and importance of statistical data by tabulating and implementing sampling methods.
- identify association between the variables as well as computing consistent and inconsistent data.
- compute level of measures and apply as well as interpret data into graphs.
- Apply measure of central tendency to minimize the sum of squared deviation.
- Able to understand the basic assumption behind regression analysis and determine the model is significance as well as able to apply various techniques for the modelling.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **<u>Unit 1</u>**	**Introduction to Statistics and Use in Business:** ➢ Meaning of Statistics as a Science, Importance of Statistics, ➢ Scope of Statistics : In the field of Industry, Biological Sciences,Medical Sciences, Economics Sciences, Social,	**5**	Statistical Methods and introductory text, Medhi J.,New Age International	Black board, chalk and Duster

	Sciences,Management Sciences, Agriculture, Insurance, InformationTechnology, Education and Psychology. ➢ Statistical organizations in India and their functions: CSO, ISI,NSS, IIPS (Devnar, Mumbai), Bureau of Economics andstatistics. ➢ Case Study.		ltd, Second edition	

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	Types of Data and Data Condensation: ➢ Method of sampling: Concept of population and sample. Finite Infinite population ,Notion ofSRS,SRSWOR and SRSWR ➢ Types of Characteristics, Different types of scales: nominal,ordinal, interval and ratio scale. Linear and circular scale. ➢ Types of Data: Primary data, Secondary data, Collection of data and concept of questionnaire and a schedule, Cross-sectional data,time series data, failure data, industrial data, and directional data. ➢ Tabulation. ➢ Dichotomous classification- for two and	4	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	three attributes, Verification for consistency. ➢ Association of attributes: Yule's coefficient of association Q. ➢ Yule's coefficient of Colligation, ➢ Notion of a statistical population: Finite population infinite ➢ population,homogeneous population and heterogeneous population. Notion of sample, random sample and non-random sample.			
	Presentation of Data ➢ Univariate frequency distribution of discrete and continuous variables. ➢ Cumulative frequency distribution and relative frequencydistribution. ➢ Graphical representation of frequency distribution by Histogram,frequency polygon, Cumulative frequency curve. Stem and leafdiagram ➢ Check sheet, Parato diagram	3	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

Unit 2	**Measures of central tendencies** ➢ Concept of central tendency of data. Requirements of good measure ➢ Locational averages: Median, Mode, and Partition Values: Quartiles,Deciles, and	6	Statistical Methods, An n itroductory Text,Medhi J. New Age Internation alLtd. Second Edition	Black board, chalk and Duster

	Percentiles, Box Plot, Percentile ranks ➢ Mathematical averages Arithmetic mean (Simple, weighted mean, combinedmean), Geometricmean, Harmonic mean ➢ Empirical relation between mean, median and mode ➢ Merits and demerits of using different measures &their applicability ➢ Partition Values : Quartiles, Deciles and Percentiles, Box Plot, ➢ Percentile ranks			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

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	Measures of Dispersion, Skewness & Kurtosis ➢ Concept of dispersion. Requirements of good measure. ➢ Absolute and Relative measures of dispersion: Range, Quartile Deviation, Mean absolute deviation, Standard deviation. ➢ Variance and Combined variance, raw moments and central moments and relations between them. Their properties	6	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	➢ Concept of Skewness and Kurtosis: Measures of Skewness: KarlPearson's, Bowley's and Coefficient of skewness based on moments. Measure of Kurtosis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

Unit 3	**Mean square deviation:** ➢ **Definition, minimality property of mean square deviation (with proof),** ➢ **Variance and standard deviation: Definition, merits and demerits, effect of change of origin and scale, combined variance (derivation for 2 groups), combined standard deviation, generalization for n groups.**	7	Statistical Methods And introductory Text, Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

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	➢ **Measures of dispersion for comparison: coefficient of range, coefficient of quartile deviation and coefficient of mean deviation,coefficient of variation (C.V.).**	5	Statistical Methods, And introductory Text ,Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lecture

SIGNATURE OF TEACHER **SIGNATURE OF H.O.D.**

Vishnu Waman Thakur Charitable TrustBhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Avinash Dilip Sonawan DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: September to December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit I	Internet and the World Wide Web: What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address,	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla. search engine, web saver – apache, IIS, proxy server, HTTP protocol What Is Web Design?: Defining Web Design, Web Design Themes, Learning Web Design	04		

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Web Technology (USDS103) Unit I	User-Centered Design: Usability, Who Are Web Users? Common User Characteristics, Memory, Response and Reaction Times, Dealing with Stimulus, Movement Capabilities, The User's World, General Types of Users, Web Conventions, Accessibility, Building a Usable Site HTML5: Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors.	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
Web Technology (USDS103) Unit II	**HTML5 Page layout and navigation:** Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: 12 creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

A.D. Sonawane

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Waman Thakur College of Science Yashvant
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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit III	**Introduction to Style Sheets** : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles, Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets **Formatting Text by Using Style Sheets**: Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining, Creating Inline Spans , Adjusting Spacing Between Letters	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	Formatting Paragraphs by Using Style Sheets: Indenting Paragraphs, Applying a Border to a Paragraph, Specifying a Border Style, Setting Border Padding, Specifying Border Width and Color, Formatting Border Sides Individually,	04		

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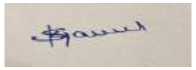
	Setting All Border Attributes at Once, Specifying the Horizontal Alignment of a Paragraph, Specifying Vertical Space within a Paragraph **Displaying Graphics**: Selecting a Graphics Format, Preparing Graphics for Web Use, Inserting Graphics, Arranging Elements on the Page, Controlling Image Size and Padding, Hyperlinking from Graphics, Using Thumbnail Graphics, Including Alternate Text for Graphics, Adding Figure Captions			

Web Technology (USDS103) Unit III	**Java Script:** Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, regExp **Document and its associated objects**: document, document object methods, Link, Area, Anchor, Image, Layer	04	JavaScript 2.0: The Complete Reference Thomas Powell and Fritz Schneider TMH 2 nd 2004	Black board and chalk
	Events and Event Handlers : General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: DS

CLASS: FYDS SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To discuss various components of communication, explain how non-verbal communication techniques enhance communication and explain the barriers to communication.
- To discuss various business activities which are essential at workplace. To explain business communication covering the structure and layout of a letter, planning of a letter and use of language.
- To explain the use of agenda and minutes for effective functioning of any organisation.
- To direct the learners' attention to the significance of effective writing and the importance and structure of reports.
- To explain to interpret information ethics (IE) as the branch of the philosophy of information that investigates, in a broad sense, the ethical impact of Information and Communication Technologies (ICTs) on human life and society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS104:Business Communication and Information Ethics **Unit 1**	**Interpretation of Communication** Basics of communication, Non-verbal communication, Barriers to communication	**6**	**Professional Communication by Aruna Koneru**	**Blackboard and chalk** **PPT , Projector**
	Business communication at workplace Letter components and layout, Planning a letter, Process of letter writing	**6**		

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USDS104: Business Communication and Information Ethics Unit 2	**Business communication at workplace** Email communication, Memos and memo reports, Employment communication. Notice, Agenda and minutes of meeting, Brochures.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk PPT , Projector**
USDS104: Business Communication and Information Ethics Unit 3	**Report Writing:** Effective writing, Types of business reports, Structure of reports, Gathering Information	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 4	**Report Writing:** Organisation of material, writing abstracts and summaries, Writing definitions, Visual aids, User Instruction Manual.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 5	**Information Ethics** Ethics after the information revolution, what is information ethics? The method of abstraction	**12**	**The Ethics of Information by Luciano Floridi**	**Blackboard and chalk**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYDS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand the components of environments and the need to conserve it
- Students should be able to know the relationship between each and every organism and identify the problem which the world is facing.
- To select, the appropriate life style to save the life on earth

Unit 3	**Environmental Pollution** Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Solid Waste Management, Hazardous Waste Management, Pollution Prevention, Disaster Management	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**
	Human Population and the Environment Population Growth, Human Rights, Value Education, HIV/AIDS, Environment and Human Health, Family Welfare Programmes, Women and Child Welfare, Role of Information Technology in Environment and Human Health	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To learn the Programming fundamentals using Python
- To learn the concepts and usage data types, variables and other basic elements of Python
- To understand operators and control statements in Python
- To learn using arrays and strings in Python.
- To understand IPython architecture for Python.
- To understand data Science Tools
- To learn plotting data using appropriate Python visualization libraries

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming (USDS102) Unit I	Introduction to Python Language: Overview, Features of Python, Execution of a Python Program, Innards of Python, Frozen Binaries, Python Interpreter, Comparison of Python with C and Java, Installing Python, Writing & Executing, IDLE	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Data Types, Variables And Other Basic Elements: Comments, Docstrings, Data types-Numeric, Compound, Boolean, Dictionary, Sets, Mapping, Basic Elements of Python, Variables	03		
	Input and Output Operations: Input Function, Output Statements,Command Line Arguments	03		

	Control Statements: Control Statements- Loop Statement, The else Suite, break Statement, continue Statement, pass Statement, assert Statement, return Statement	03		
Introduction to Programming (USDS102) Unit II	Functions: Defining & Calling a Function, Returning Results, Returning Multiple Values, Built-in Functions, Parameters and Arguments, Recursive Functions, Anonymous or Lambda Functions	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Operators: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	03		
	Arrays: Creating Arrays, Indexing and Slicing, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic Slicing. Advanced Indexing. Dimensions of Arrays, Attributes of an Array	03		
	Strings: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing & Slicing, Repeating & Concatenation of Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Strings are Immutable, Splitting and Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting & Searching in the Strings, Formatting the Strings, Working with Characters	03		
Introduction to Programming (USDS102) Unit III	Lists and Tuples: Lists, List Functions and Methods, List Operations, Tuples	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Ordered Dictionaries	03		

	Regular Expressions: What is a Regular Expression? Sequence Characters in Regular Expressions, Quantifiers in Regular Expressions, Special Characters in Regular Expressions, Using Regular Expression on Files, Retrieving Information from an HTML File	03		
	Date and Time in Python: Date and Time, Date and Time Now, Combining Date and Time, Formatting Dates and Times, Finding Durations using "timedelta", Comparing Two Dates, Sorting Dates, Stopping Execution Temporarily, Knowing the Time taken by a Program, Working with Calendar Module	03		
Introduction to Programming (USDS102) Unit IV	IPython: Beyond Normal Python, Help and Documentation in IPython, Keyboard Shortcuts in the IPython Shell, IPython Magic Commands, Input and Output History, IPython and Shell Commands, Errors and Debugging, Profiling and Timing Code	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk
	Introduction to NumPy: Understanding Data Types in Python, The Basics of NumPy Arrays, Computation on NumPy Arrays: Universal Functions, Aggregations: Min, Max, and Everything In Between, Computation on Arrays: Broadcasting, Comparisons, Masks, and Boolean Logic, Fancy Indexing, Sorting Arrays, Structured Data: NumPy's Structured Arrays	06		
Introduction to Programming (USDS102) Unit V	Data Manipulation with Pandas: Introducing Pandas Objects, Data Indexing and Selection, Operating on Data in Pandas, Handling Missing Data, Hierarchical Indexing, Combining Datasets: Concat and Append, Combining Datasets: Merge and Join, Aggregation and Grouping, Pivot Tables, Vectorized String Operations, Working with	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk

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	Time Series. High-Performance Pandas: eval( ) and query( )			
	Visualization with Matplotlib: Simple Line Plots, Simple Scatter Plots, Visualizing Errors, Density and Contour Plots, Histograms, Binnings, and Density, Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Customizing Ticks, Customizing Matplotlib: Configurations and Stylesheets, Three-Dimensional Plotting in Matplotlib, Geographic Data with Basemap, Visualization with Seaborn	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(Data Science) Div:A SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn the essential Python data structures; To learn the significant Python implementation of popular data structures; To learn about various data structure algorithms and design paradigms; To acquire knowledge of how to create complex data structures; To acquire basic understanding of complex data structures such as trees and graphs and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USDS302 unit:1, Title: Data Structures and Algorithms Using Python	**Python Objects & Object-Oriented Programming**: Goals, Principles, and Patterns, Overview of data types and objects, Classes and object programming, Class Definitions, Inheritance, Data encapsulation and properties, Namespaces and Object-Orientation, Shallow and Deep Copying	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Python Data Types and Strutures: Modules for data structures and algorithms- Collections, Deques, ChainMap objects Counter, Counter objects, Ordered dictionaries defaultdict, Learning about named tuples Arrays.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Principles of Algorithm Design: An introduction to algorithms, Algorithm design paradigms Recursion and backtracking, Backtracking, Divide and conquer - long multiplication The recursive approach Runtime analysis Asymptotic analysis Big O notation, Composing complexity classes Omega notation, Theta notation, Amortized analysis.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard

Paper: USDS302 unit:2, Title: Data Structures and Algorithms Using Python	**Lists and Pointer Structures**:Arrays-Pointer structures. **Singly linked lists-**Singly linked list class, The append operation, A faster append operation, Getting the size of the list, Improving list traversal, Deleting nodes, List search, Clearing a list	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Doubly linked lists-A doubly linked list node Doubly linked list class Append operation The delete operation List search.	3	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Circular lists-Appending elements, Deleting an element in a circular list, Iterating through a circular list **Stacks:** Stack implementation, Push operation, Pop operation, Peek operation, Bracket-matching application,	5	Hands-On Data Structures andAlgorithms with Python	Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYDS

SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

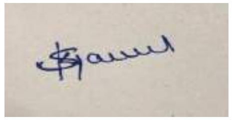
- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 1	THE COMPELLING NEED FOR DATA WAREHOUSING: Escalating Need for Strategic Information, Failures of Past Decision-Support Systems, Operational Versus Decision-Support Systems, Data Warehousing—The Only Viable Solution, Data Warehouse Defined, The Data Warehousing Movement, Evolution of Business Intelligence	3	DATA WAREHOUSING FUNDAMENTALS FOR IT PROFESSIONALS BY- PAULRAJ PONNIAH	BLACK BOARD AND CHALK
	DATA WAREHOUSE: The Building Blocks: Defining Features, Data Warehouses and Data Marts, Architectural Types, Overview of The Components, Metadata in The Data Warehouse	3		
	TRENDS IN DATA WAREHOUSING: Continued Growth in Data Warehousing, Significant Trends, Emergence of Standards, Web-Enabled Data Warehouse	2		

	ARCHITECTURAL COMPONENTS: Understanding Data Warehouse Architecture, Distinguishing Characteristics, Architectural Framework, Technical Architecture, Architectural Types	2		
	THE SIGNIFICANT ROLE OF METADATA: Why Metadata Is Important, Metadata Types By Functional Areas, Business Metadata, 12 Books and References: Technical Metadata, How To Provide Metadata	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT: CS

CLASS: SYDS SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

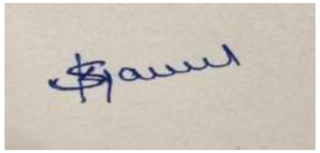
LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 3	**INTRODUCTION TO DATA MINING**: Introduction to Data Mining, Need of Data Mining, What Can Data Mining Do and Not Do? Data Mining Applications, Data Mining Process, Data Mining Techniques, Difference between Data Mining and Machine Learning	4	Data Mining and Data Warehousing : Principles and Practical Techniques- by Parteek Bhatia	BLACK BOARD AND CHALK
	BEGINNING WITH WEKA AND IRIS DATASET IN R: About Weka, Installing Weka, Understanding Fisher‘s Iris Flower Dataset, Preparing the Dataset, Understanding A RFF, Working with a Dataset in Weka, Working with the Iris dataset in R Data Preprocessing: Need for Data Preprocessing, Data Preprocessing Methods	4		
	CLASSIFICATION: Introduction to Classification, Types of Classification,	4		

	Input and Output Attributes, Guidelines for Size and Quality of the Training Dataset, Introduction to the Decision Tree Classifier, Naive Bayes Method, Understanding Metrics to Assess the Quality of Classifier			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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Teaching plan sycs sem 3 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data science

CLASS: S.Y.B.Sc.(DS)

SEMESTER: June to September

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS305 **Linear Algebra and Discrete Mathematics** **<u>Unit 1</u>**	Matrices and Gaussian Elimination: • Introduction, The Geometry of Linear Equations, • An Example of Gaussian Elimination, • Matrix Notation and Matrix Multiplication,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication	Black board, chalk and duster

			Fourth Edition	
	• Triangular Factors and Row Exchanges, • Inverses and Transposes, • Special Matrices and Applications	3	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	Vector Spaces: • Vector Spaces and Subspaces, • Solving Ax= 0 and Ax= b,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• Linear Independence, • Basis, and Dimension,	2	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• The Four Fundamental Subspaces, • Graphs and Networks, Linear Transformations	2	Linear Algebra and Its Applications Gilbert Strang Cengage	Black board, chalk and duster

			Publication Fourth Edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 Linear Algebra and Discrete Mathematics Unit 2	Orthogonality: ● Orthogonal Vectors and Subspaces, ● Cosines and Projections onto Lines, ● Projections and Least Squares,	4		Black board,chalk and duster
	● Orthogonal Bases ● and Gram-Schmidt, The Fast Fourier Transform	4		Black board,chalk and duster
	Determinants: ● Introduction, ● Properties of the Determinant, ● Formulas for the Determinant,	4		Black board,chalk and duster
	● Applications of Determinants	3		Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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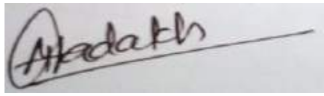
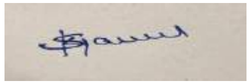
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/ S	TEACHING METHOD/ ICT TOOLS USED
USCS 302				
Linear Algebra and Discrete Mathematics	•	3		Black board, chalk and duster
Unit 3	•	4		Black board, chalk and duster
	•	5		Black board, chalk and duster
	•	3		Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(DS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:1. Understand concept of clustering.

2. To align the Data Mining techniques for analyzing the datasets using tools like Weka, R or Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	CLUSTER ANALYSIS: Introduction to Cluster Analysis, Applications of Cluster Analysis, Desired Features of Clustering, Distance Metrics, Major Clustering Methods/Algorithms, Partitioning Clustering,	4	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	HIERARCHICAL CLUSTERING ALGORITHMS: Web Mining and Search Engines: Introduction, Web Content Mining	4		
	Web Usage Mining, Web Structure Mining, Hyperlink Induced Topic Search algorithm, Introduction to Modern Search Engines, Working of a Search Engine, PageRank Algorithm, Precision and Recall	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	INTRODUCTION TO ASSOCIATION RULE MINING: Defining Association Rule Mining, Representations of Items for Association Mining, The Metrics to Evaluate the Strength of Association Rules, The Naive Algorithm for Finding Association Rules, Approaches for Transaction Database Storage	6	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	THE APRIORI ALGORITHM, Closed and Maximal Itemsets, The Apriori–TID Algorithm for Generating Association Mining Rules, Direct Hashing and Pruning (DHP), Dynamic Itemset Counting (DIC), Mining Frequent Patterns without Candidate Generation (FP Growth)	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: DS

CLASS: SYDS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

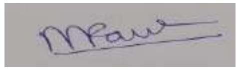
LEARNING OBJECTIVE/S:

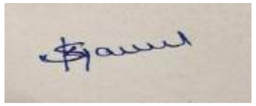
- To learn the essential Python data structures.
- To learn the significant Python implementation of popular data structures
- To learn about various data structure algorithms and design paradigms
- To acquire knowledge of how to create complex data structures.
- To acquire basic understanding of complex data structures such as trees and graphs and their applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit III	**Queues:** List-based queues, Stack-based queues Node-based queues, Application of queues Media player queues	03	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Trees: Terminology, Tree nodes, Tree traversal, Depth-first traversal In-order traversal and infix notation, Pre-order traversal and prefix notation, Post-order traversal and postfix notation, Breadth-first traversal	04		
	Binary trees-Binary search trees, Binary search tree implementation, Binary search tree operations, Finding the minimum and maximum nodes Inserting nodes Deleting nodes, Searching the tree, Benefits of a binary search tree, Balancing trees, Expression trees, Parsing a reverse Polish expression, Heaps, Ternary search tree	05		

DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit IV	**Hashing and Symbol Tables**: Hashing- Perfect hashing functions Hash tables-Storing elements in a hash table, Retrieving elements from the hash table, Testing the hash table, Using [] with the hash table, Non-string keys, Growing a hash table, Open addressing, Chaining, Symbol tables	06	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Graphs and Other Algorithms: Graphs-Directed and undirected graphs, Weighted graphs, Graph representations, Adjacency lists, Adjacency matrices, Graph traversals-Breadth-first traversal, Depth-first search, Other useful graph methods, Priority queues and heaps- Insert operation, Pop Operation, Selection Algorithm	06		
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit V	**Sorting:** Sorting algorithms- Bubble sort algorithms, Insertion sort algorithms, Selection sort algorithms, Quick sort algorithms	04	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Selection Algorithms: Selection by sorting, Randomized selection Quick Select, Deterministic selection-Pivot selection Median of medians, Partitioning step	04		
	Pattern Matching Algorithms: The brute-force algorithm, The RabinKarp algorithm	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find the eigenvalues and eigenvectors of given matrix.
- Check whether the given matrix is diagonalizable.
- Solve the difference equation using eigenvalues & eigenvectors.
- Solve the differential equation using eigenvalues & eigenvectors.
- Understand the concept of similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS Unit 3 Eigenvalues & Eigenvectors	➢ Finding eigenvalues & eigenvectors ➢ Diagonalisation of a matrix ➢ Difference equations and powers Ak ➢ Differential equations & eAt ➢ Complex matrices ➢ Similarity transformations	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: October-November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the minima, maxima and saddle points of the given function of two variables.
- Test whether the given quadratic form is positive definite.
- Find the singular value decomposition of the given matrix.
- Find the minimum value of the given quadratic form.
- Understand the concept of matrix norm, condition number and spectral norm.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS (Unit 4) Positive definite matrices & Computation with matrices	➢ Minima, Maxima & Saddle points ➢ Tests for positive definiteness ➢ Singular value decomposition ➢ Minimum principles ➢ Finite element method ➢ Matrix norm & condition number	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 5 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: November-December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the solution of linear inequalities graphically and numerically.
- Find out the solution of LPP using simplex method.
- Find the dual of the given primal problem.
- Understand various network models.
- Find out the saddle point of the given game problem.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
LINEAR ALGEBRA&DISCRETE MATHEMATICS **(Unit 5)** LPP & Game theory	➢ Linear inequalities ➢ The simplex method ➢ The dual problem ➢ Network models ➢ Game theory	2 3ss 2 2 3	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: DATA SCIENCE

CLASS:S.Y.BSC(D.S) SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:RESEARCH METHODOLOGY

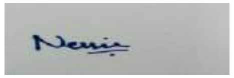
LEARNING OBJECTIVE/S:

The learners will be able to: To impart analytical skill in solving complex problems. To foster the ability to critically think in developing robust, extensible and highly maintainable solutions to simple and complex problems. To explore the unknown and unlock new possibilities in different dimensions of the system. To portray accurately the characteristics of a particular individual, situation or a group under study.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
RESEARCH METHODOLOGY USDS301 Unit-2	**Sampling Design:** Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample?, Random Sample from an Infinite Universe, Complex Random Sampling Designs	4	Research Methodology – Methods and techniques	PowerPoint Presentation

	Measurement and Scaling Techniques: Measurement in Research, Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling, Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques	4	C. R. Kothari New Age International (P) Ltd.,	
	Methods of Data Collection: Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method, (i) Guidelines for Constructing Questionnaire/Schedule (ii) Guidelines for Successful Interviewing (iii) Difference between Survey and Experiment	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		
RESEARCH METHODOLOGY USDS301 Unit-4	**Interpretation of Data and Paper Writing** – Layout of a Research Paper, Journals in Computer Science, Impact factor of Journals, When and where to publish ?, UGC-CARE, Web of Science, SCOPUS, IEEE, ACM, Ethical issues related to publishing, Copyright, Data Privacy, Plagiarism and Self-Plagiarism, Software for detection of Plagiarism. ShodhShudhhi (PDS), smallseotools.com Use of Encyclopedias, Research Guides, Handbook etc., Academic Databases for Computer Science and Information Technology Discipline. Google Scholar, shodhganga, IEEE Xplore, ResearchGate, IDELS, DASH	8	Research Methodology – Methods and techniques C. R. Kothari New Age International (P) Ltd.,	PowerPoint Presentation
	Use of tools / techniques for Research: Chicago, Turabian, MLA and APA Style, Reference Management Software like EndNote, Zotero or Mendeley; Software for paper formatting like LaTeX/MS Office/	8		

	Scrivener/Open Office/Google Doc/DropBox Paper.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		



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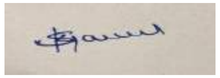

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Commerce

SEMESTER: I MONTH: October Academic Year: 2022-23

CLASS: F Y B Com Div. A & B

LEARNING OBJECTIVE/S: The learners will be able to :

Demonstrate knowledge of preparation of financial statement and financial schedule in accordance with GAAP – Generally Accepted Accounting Principles, through analysis and synthesis of information as well. Student will learn relevant financial accounting carrier skills, applying both quantitative & qualitative knowledge to their future carrier in business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Accountancy & Financial Management 1	**Accounting Standards Issued by ICAI and Inventory Valuation • Accounting Standards:** Concepts, Benefits, Procedures for Issue of Accounting Standards Various AS: **AS – 1: Disclosure of Accounting Policies** (a) Purpose (b) Areas of Policies (c) Disclosure of Policies (d)Disclosure of Change in Policies **AS – 2: Valuation of Inventories (Stock)** (a) Meaning, Definition (b) Applicability (c) Measurement of Inventory	03	*Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi* *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*	Chalk & talk, Black-Board Method; Group Discussion,

	(d) Disclosure in Final Account(e) Explanation with Illustrations **AS – 9: Revenue Recognition** (a) Meaning and Scope (b) Transactions Excluded (c) Sale of Goods (d) Rendering of Services (e) Effects of Uncertainties (f) Disclosure			
	Final Accounts • Adjustments and Closing Entries • Final Accounts of Manufacturing Concerns (Proprietary Firm)	12		

	Departmental Accounts Meaning Basis of Allocation of Expenses and Incomes / Receipts Inter Departmental Transfer: At Cost Price and Invoice Price Stock Reserve Departmental Trading and Profit and Loss Account and Balance Sheet	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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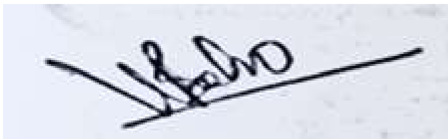

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
MODULE 1	Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers.	03		
Introduction to Advertising	Classification of advertising: Geographic, Media, Target audience and Functions.	06		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*4=48

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
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PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 2	Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Agency and Client: Maintaining Agency–Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation	03		

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TEACHING PLAN (UNIT PLAN)

Advertising Agency	Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modelling, Dubbing.	05	Communications Perspective George Belch and Michael Belch	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
	Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price.	03		1.Lecture and discussion. 2. Flow charts.

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TEACHING PLAN (UNIT PLAN)

MODULE 3 Economic & Social Aspects of Advertising	Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture.	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

MODULE 4 Brand Building and Special Purpose Advertising	Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising.	03		
	Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: FYBCOM (H, I) SEMESTER: I (Subject : Commerce I) MONTH: Aug-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Learner will be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of business.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
COMMERCE I UNIT I BUSINESS	Introduction: Concept, functions, scope, significance OBJECTIVES OF BUSINESS : Steps, classification, reconciliation of economic & social objectives NEW TRENDS IN BUSINESS : Liberalisation, privatization, globalisation, strategy alternatives, restructuring strategies, turnaround strategies	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board
UNIT II BUSINESS ENVIRONM	INTRODUCTION : Concept, importance, inter relationship between business and environment Constituents: Internal and external environment, educational environment and its impact	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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ENT	International environment: Current trends in world, WTO, trading blocs and their impact			
UNIT IV Entrepreneurship	Entrepreneurship: Types, Competencies, Training & Development Centres, Incentives to Entrepreneurs, Women entrepreneurs: Problems, Promotion	08	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashlesha Maurya DEPARTMENT: Commerce CLASS: F.Y.B. Com SEMESTER: I

MONTH: July to November ACADEMIC YEAR: 2022-2023 Subject: Environmental Studies

Div. L, M, N, O

LEARNING OBJECTIVES:
The learners will be able to understand need to study this subject. It helps them to understand current environmental problems in the society and theirresponsibility towards the environment.

UNIT 1	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Environment: Meaning, definition, scope and its components	5	1.Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method

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TEACHING PLAN (UNIT PLAN)

Environment and Ecosystem	2. concept of an ecosystem : definition, Characteristics, components and types, functioning and structure	4	2.Fundamentals of Ecology: Odum E.P.	Teaching aid: Google forms, Power point presentation,chalkboard
	3. Food Chain and Food Web, Ecological Pyramids	2		
	4. Man and environment relationship , Importance and scope of Environmental Studies	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:

The learners will be able to understand about different types resources and problems caused by improper utilization of natural resources. They will alsounderstand the concept of sustainability and its need to handle current environmental problems.

UNIT 2	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Natural Resources and Sustainable Development	1. Meaning, definitions, classification and types of resources	2	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2. discussion method Teaching aid: Google forms, Power point presentation, chalkboard
	2. Factors influencing resource; Resource conservation-meaning and methods	2		
	3.conventional and non-conventional resources	3		
	4. Problems associated with and management of water, forest and energy resources	5		

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	5. resource utilization and sustainable development	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:
The learners will be able to understand about environmental and social problems caused by increasing population and its control measures. They will able tounderstand concepts of HDI &WHI

UNIT 3	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Populations and Emerging Issues of Development	1. Population explosion in the world and in India and arising concerns, Demographic Transition Theory	3	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Pattern of population growth in the world and in India and associated problems	3		
	3. Measures taken to control population growth in India; Human population and environment	3		
	4. Environment and Human Health	1		

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TEACHING PLAN (UNIT PLAN)

	5. Human Development Index, The World Happiness Index	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:
The learners will be able to understand about concepts of urbanization and associated problems. They will learn about smart and sustainable cities.

UNIT 4	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Urbanisation and Environment	1. Concept of Urbanisation	1	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Problems of migration and urban environment- changing landuse, crowding and stress on urban resources	5		
	3. Degradation of air and water, loss of soil cover, impact on biodiversity, Urban heat islands	3		
	4. Emerging Smart Cities and safe cities in India - Sustainable Cities	3		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVES:
The learners will be able to read various types of thematic maps and learn about map fillings which will give them an idea of spatial distribution ofenvironmental problems

UNIT 5	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Reading of Thematic Maps and Map Filling	1. Reading of Thematic Maps Located bars, Circles, Pie charts, Isopleths, Choropleth and Flow map, Pictograms	4	Environmental studies: P.G. Shinde	Teaching Method: 1. Lecture method 2.Discussion method 3.Demonstration method Teaching aid: Chalkboard
	2. Map filling of World (Environmentally significant features) using point, line and polygon segment.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **II** (Subject : **BUS. ECONOMICS-II**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Market Structure: Perfect Competition and Monopoly**

The student must be able to understand **Pricing and Output Decisions under Imperfect Competition**

The student must be able to understand **Pricing practices**

The student must be able to understand **Evaluating capital projects**

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PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - II	Unit I: **Perfect competition and Monopoly models** as two extreme cases - profit maximisation and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - Monopoly - Sources of monopoly power – short run and long run equilibrium of a firm under Monopoly	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases*	Google classroom, Google Forms
	Unit II: Monopolistic competition: Competitive and Monopolistic elements of monopolistic competition- equilibrium of firm under monopolistic competitions, monopolistic verses perfect competition, excess capacity and inefficiency, debate over role of advertising, (topics to be	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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TEACHING PLAN (UNIT PLAN)

	taught using case studies from real life examples) ***Oligopolistic Market***: Key attributes of oligopoly- Collusive and non-collusive oligopoly market, Price rigidity, Cartels and price leadership models(with practical examples)			
	Unit III: ***Unit III***: Cost oriented pricing methods: cost –plus (full cost)/mark-up pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)	**10 lectures**		

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TEACHING PLAN (UNIT PLAN)

	Unit IV: Evaluating capital projects Meaning and importance of capital budgeting- steps in capital budgeting- Techniques of Investment appraisal: payback period method, net present value method, and internal rate of return method (with numerical examples)	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Suborna S. Banerjee DEPARTMENT: B. Com. CLASS: FYBCom. SEMESTER: 1 (Subject : Bussiness Communication 1)

MONTH: August - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

To help students understand the various aspects of communication. The learners will be able to Preparing resumes to attending interviews, convenig meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.

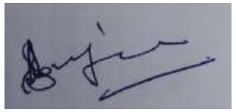
To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
1) Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels: Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication:	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk – Board PPT

	Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
2) Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers 2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk –Talk Method PPT

4) Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities □ Listening Comprehension □ Remedial Teaching □ Speaking Skills: Presenting a News Item, Dialogue and Speeches □ Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling.	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk- Talk Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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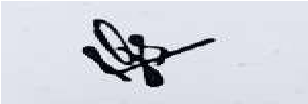

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. learn basic concept of business.
2. learn various business objectives and various strategies of businesses.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
	Introduction: concept, functions, scope, significance	03	Introduction to commerce, Vikram, Amit, Atlantic pub	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools(google meet, google formGoogle classroom, PPTs)
MODULE 1	Objectives of business: steps, classification, reconciliation of economic & social objectives	03		
BUSINESS	New trends in business: liberalisation, privatization, globalisation, strategy alternatives, restructuring strategies, turnaround strategies	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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TEACHING PLAN (UNIT PLAN)

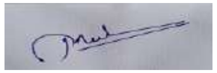
NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE   DEPARTMENT: B.COM   CLASS: FYB.COM – N & O

SEMESTER: 1st   MONTH: August-November   ACADEMIC YEAR: 2022-20213   SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. To introduce the learners with Inter-relationship between Business and Environment.
2. To acquaint students with a knowledge of international trading environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 2: BUSINESS ENVIRONMENT	• Introduction: Concept and Importance of business environment, Inter – relationship between Business and Environmental.	3	Business Environment – Cherunilam	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (Google meet, google form Google classroom, PPTs)
	• Constituents of Business Environment: Internal and external Environment, Educational Environment and it's impact. .	4	Essentials of Business Environment – Aswathappa	
	• International Environment – Current Trends in the World, International Trading Environment - WTO and Trading Blocs and their impact on Indian Business	5		



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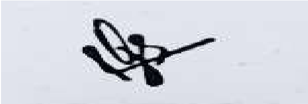

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. To identify and demonstrate process for Business plan and its statutory requirements.
2. To makes students able to prepare project report, and Feasibility Study.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 3: PROJECT PLANNING	• Introduction: Business Planning Process; Concept and Importance of Project Planning; Project Report; Feasibility Study Types and its Importance.	4	Strategic management - Bhutani Business Organization Management - Maheshwari	1. Lecture and discussion. 2. Flow charts. 3. Online teaching learning tools (google meet, google form Google classroom, PPTs)
	• Business Unit Promotion: Concept and Stages of Business Unit Promotion, Location -Factors determining location and Role of Government in Promotion.	4		
	• Statutory Requirements in Promoting Business Unit: Licensing and Registration Procedure, Filling returns			

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TEACHING PLAN (UNIT PLAN)

	and other documents, other important legal provision.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

EARNING OBJECTIVE/S: The learners will be able to:

1. Concept of entrepreneurship and the scenario of entrepreneurship in India.

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
MODULE- 4 ENTREPRENEUR SHIP	Introduction: Concept, Importance, Factors – Growth of Entrepreneurship, Intrapreneurs	03	Entrepreneurship, Hisrich, Robert D, Mc grow Hill	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools(google meet, google form Google classroom, PPTs)
	Entrepreneurship: Types, Competencies, Training & Development Centres, Incentives to Entrepreneurs	03		

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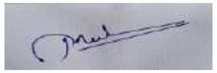
TEACHING PLAN (UNIT PLAN)

	Women entrepreneurs: Problems, Promotion	02		

TOTAL NO. OF LECTURES ALLOCATED TO THE UNIT: 08*2=16



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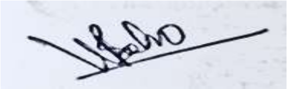

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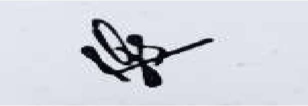

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: FYBCOM (ALL DIVISIONS) SEMESTER: I (Subject : NSS FC I)

MONTH: AUGUST TO OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Introduction to NSS	**UNIT- 1 Emergence of NSS in India (Historical Background) and its development.** Organizational Structure of National Service Scheme from National Level to College Level.Objectives of National Service Scheme (SS) National Service Scheme (NSS) - Symbol and it's meaning **UNIT -Il Symbol of NSS and its meaning** Motto of National Service Scheme (NSS)	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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	Various prayers, inspirational songs to be used in NSS Programme.		Service Scheme Manual,2009.	
UNIT-2 National Service Scheme Regular Activities	**UNIT - I Guidelines of Distribution of working hours or academic year.** Classification of Regular Activities in the Society Rural Urban Campus Need base with association **UNIT - II Associations in NSS Activities** Govt. Organization; NGO; Scope for Innovation (Self-Generated)	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
Unit 3 Social Issues in India	Features of Indian Society , communities in India, Family System, Division of Labour, Caste System , Gender Issues, Regional Imbalance.	12	1. Service Scheme Manual (Received) Government of India Ministry of	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

			Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	
UNIT4 : Indian Constitution and Social Justice.	Preamble , Strucutre, Features, Fundamental Rights and Duties. Social Justice – Concept and Features Contribution of Social Justice – Dr Ambedkar, Mahatma Phule and Shahu Maharaj	13	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: F.Y.BCom SEMESTER: I Subject: FINANCIAL ACCOUNTING

MONTH: JULY, AUG, SEP, & OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 & 4	**Inventory Valuation**: Part A - FIFO Method, Part B - Weighted Average Method	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Capital & Revenue expenditure: Capital Expenditure, Revenue Expenditure, (Explain Basic definition , features, Differences & Practical problem solved)	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Hire Purchaser : Calculation of Interest , Journal Entry in the book s of Purchaser company, Journal Entry in the book s of Vendor company, Ledger in the book of Purchaser & Vendor (Practical Problem Solve),	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Snehal S. Jadhav DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: I (Subject :Environmental Studies)

MONTH: November ACADEMIC YEAR: 2022 - 2023

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge about the Environment, its components and Environmental problems. It will help to create awareness about protection of environment and natural Resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	Unit 1: Environment and Ecosystem- Definition, scope, its components. Ecosystem-Definition, components and types, functioning and structure, Food chain, Food web, Ecological pyramid; Man, and environment relationship, Importance and scope of environmental studies. Unit 2: Natural Resources and Sustainable Development Meaning and Definitions; Classification and types of resources, factors influencing resource utilisation; Resource conservation- meaning and methods- conventional and non-conventional resources, problems associated with and management of water, forest and	13 13	Environmental Science by Santra S.C Online resources Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk-Board Method Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

	energy resources- resource utilization and sustainable development.			
	Unit 3: Population and Immerging issues of Development: Population explosion in the world and India and arising concerns-Demographic Transition Theory- pattern of population growth and associated problems, Measures, Human population and environment, environment and Health,HDI, WHI. Unit 4: Urbanization and Environment: Concept of urbanization- problems of migration and urban environment- changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover, impact on biodiversity, Urban Heat Island, Emerging smart cities and safe cities in India, sustainable	13 13	Environmental Science by Santra S.C Online resources Environmental management by H V. Jadhav	Chalk-Board Method Chalk-Board Method
	Map filling and Map reading- World Map	04	Map book by Sheth and Vipul Publication	Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __SMITA KHAIRE___DEPARTMENT: Commerce (Interdisciplinary) CLASS: F.Y.B.COM SEMESTER: _I_ (Subject : EVS)

MONTH: August-November ____________ ACADEMIC YEAR: 2022-23___________

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge and understanding about the Environment, its components and Environment problems. It will help to create awareness about protection of the Environment and natural resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental Studies Div- I, J, K (U1 to U4 and Map reading and Map filling) Div-L (U1 and U4 and Map filling)	Unit 1: Environment and Ecosystem- Definition, scope, its components. Ecosystem-Definition, components and types, functioning and structure, Food chain, Food web, Ecological pyramid; Man, and environment relationship, Importance and scope of environmental studies.	13/7	Environmental Science by Santra S.C Online resources	Chalk-Board Method
	Unit 2: Natural Resources and Sustainable Development Meaning and Definitions; Classification and types of resources, factors influencing resource utilisation; Resource conservation-meaning and methods- conventional and non-conventional resources, problems associated with and management of water, forest and energy resources- resource utilization and sustainable development.	13	Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

	Unit 3: Population and Immerging issues of Development: Population explosion in the world and India and arising concerns- Demographic Transition Theory- pattern of population growth and associated problems, Measures, Human population and environment, environment and Health, HDI, WHI.	13	Environmental management by H.V. Jadhav	Chalk-Board Method
	Unit 4: Urbanization and Environment: Concept of urbanization- problems of migration and urban environment changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover, impact on biodiversity, Urban Heat Island, Emerging smart cities and safe cities in India, sustainable cities	13/7	Environmental Science by Santra S.C Online resources	Chalk-Board Method
	Map filling and Map reading- World Map	4	Map book by Sheth and Vipul Publication	Chalk-Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_ 13___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _________Tejaswini Naik__________________ DEPARTMENT: accountancy CLASS: Fybcom SEMESTER: _1_ (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To give students an overview of how to keep systematic record of financial accounts and facilitate decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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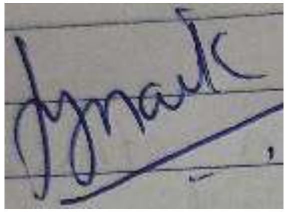

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TEACHING PLAN (UNIT PLAN)

	SUBTOPICS 1.Accounting standard 1 , 2 , and 9- Disclosure of accounting policies, stock valuation and revenue recognition.(theory only) 2. Inventory valuation – PROcess of purchase of inventory, method of valuation of stock- FIFO and weighed average method theory and practical questions. 3. Capital and revenue expenditure- difference, features, revenue income, capital income, theory and practical questions.	5 6 3	Manan publication	Blackboard

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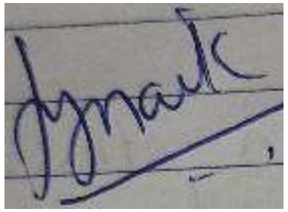

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TEACHING PLAN (UNIT PLAN)

	6. Accounting for Hire Purchase Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____21

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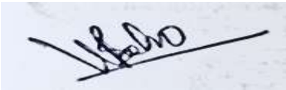

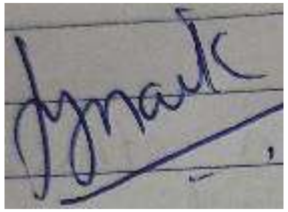

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKITA PANDEY** DEPARTMENT: **FYBCOM** CLASS: **COMMERCE** SEMESTER: **I** (Subject : **BUSINESS ECONOMICS**)

MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction	Introduction to Business Economics : Basic tools- opportunity cost Principle _ Incremental and marginal concepts. Basic economic relations _ functional relations : equations - Total, Average and Marginal relations _ use of marginal analysis in decision making. The basic of market demand, markets supply and equilibrium price_ shifts in the demand and supply curves and equilibrium.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 2 Demand Analysis	Demand Analysis Demand Function : Nature of demand curve under different markets meaning, significance, types and measurement of elasticity of demand. (price, income cross and promotional) -relationship between elasticity of demand and revenue concepts.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Demand Estimation and forecasting :	Demand Estimation and forecasting : Meaning and significance _ methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)			
UNIT 3 Supply and production decisions	Short run analysis with law of variable proportions _ production function with two variable inputs _ isoquants, ridge lines and least cost combination of inputs_ Long run production function and laws of returns to scale _ expansion path_ economies and diseconomies of scale and economies of scope	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 4 Cost of Production Extension of Cost Analysis :	Cost concepts : Accounting Cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and Incremental cost _ fixed and variable cost _ total, average and marginal cost _ Cost Output relationship in the short run and long run Cost reduction through experience -- LAC and Learning Curve _ Break even analysis [with business applications]	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHINGPLAN(UNITPLAN)

NAME OF THE STAFF: **VISHAKHA SANE** DEPARTMENT: **FYBCOM** CLASS: **COMMERCE** SEMESTER: **I** (Subject : **BUSINESS ECONOMICS**)

MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction	Introduction to Business Economics : Basic tools- opportunity cost Principle _ Incremental and marginal concepts. Basic economic relations _ functional relations : equations - Total, Average and Marginal relations _ use of marginal analysis in decision making. The basic of market demand, markets supply and equilibrium price_ shifts in the demand and supply curves and equilibrium.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 2 Demand Analysis	Demand Analysis Demand Function : Nature of demand curve under different markets meaning, significance, types and measurement of elasticity of demand. (price, income cross and promotional) -relationship between elasticity of demand and revenue concepts.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

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TEACHINGPLAN(UNITPLAN)

Demand Estimation and forecasting :	Demand Estimation and forecasting : Meaning and significance _ methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)			
UNIT 3 Supply and production decisions	Short run analysis with law of variable proportions _ production function with two variable inputs _ isoquants, ridge lines and least cost combination of inputs_ Long run production function and laws of returns to scale _ expansion path_ economies and diseconomies of scale and economies of scope	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 4 Cost of Production Extension of Cost Analysis :	Cost concepts : Accounting Cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and Incremental cost _ fixed and variable cost _ total, average and marginal cost _ Cost Output relationship in the short run and long run Cost reduction through experience -- LAC and Learning Curve _ Break even analysis [with business applications]	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: ____BUSINESS ECONOMICS_____ CLASS: _____FYBCOM__
SEMESTER: __I (Subject : ________Business Economics I_________)

MONTH: _____July to October_______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: ___Learn and understand the basic concepts of Economics and how to imply Economics in their day to day life. As well as what are the

Various economic indicators in various economy and their purposes.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	1 Introduction Scope and Importance of Business Economics - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations: equations- Total, Average and Marginal relations- use of	4 lectures per week	H.K.Ahuja Advanced Economic Theory	Chalk Duster Ppt Presentation Google Classroom Class test Quiz Assignment Google meet

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TEACHING PLAN (UNIT PLAN)

	Marginal analysis in decision making, The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium 2 Demand Analysis Demand Function - nature of demand curve under different markets Meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts Demand estimation and forecasting: Meaning and significance - methods of			

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TEACHING PLAN (UNIT PLAN)

	demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression) 3 Supply and Production Decisions Production function: short run analysis with Law of Variable ProportionsProduction function with two variable inputs- isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale - expansion path - Economies and diseconomies of Scale and economies of scope 4 Cost of Production Cost concepts: Accounting cost and economic cost, implicit and explicit cost,			

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	social and private cost, historical cost and replacement cost, sunk cost and incremental cost -fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed) Extensions of cost analysis: cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)			

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __FYBCOM G&H__ SEMESTER: I__ (Subject : Commerce__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of businesses

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
UNIT II **BUSINESS ENVIRONMENT**	INTRODUCTION : Concept, importance, inter-relationship between business and environment	11	Introduction to commerce, Vikram , Amit, Atlantic pub Essentials of business environment-Ashwathappa	Chalk and board

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	CONSTITUENTS OF BUSINESS ENVIRONMENT: Internal and external environment, educational environment and its impact			
	INTERNATIONAL ENVIRONMENT: Current trends in the world, international trading environment-WTO and trading blocks and their impact on Indian business			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11___

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Project Planning	INTRODUCTION : Business planning process, concept and importance of project planning, project report, feasibility study types and its importance	**11**	Introduction to commerce, Vikram , Amit, Atlantic pub	**Chalk and board**
	BUSINESS UNIT PROMOTION: Concept and stages of business unit promotion, factors affecting location, role of government in promotion		Essentials of business environment- Ashwathappa	
	STATUTORY REQUIREMENTS: Licensing and registration, procedure, filing returns and other documents, other important legal provisions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11___

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Women Entrepreneur	INTRODUCTION : Concept, importance, factors – growth of entrepreneurship, intrapreneurs ENTREPRENEURSHIP : Types, competencies, training & development centres, incentives to entrepreneurs WOMEN ENTREPRENEURS : Problems, promotion	11	Introduction to commerce, Vikram , Amit, Atlantic pub	Chalk and Board
			Essentials of business	

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TEACHING PLAN (UNIT PLAN)

			environment- Ashwathappa	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: FYBCOM-K SEMESTER: I (Subject: Commerce I)

MONTH: August- December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Know the basic concepts of business and modern business theories to apply in today's dynamic world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Chp 1: Business	Introduction: Concept of Business, Functions, Scope Significance Objectives of Business: Steps, classification, Reconciliation of economic and social objectives New Trends in Business: Liberalisation, privatisation , globalisation, strategy alternatives, restructuring strategies, turnaround strategies	6	Manan Prakashan	Chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (I, J, L)

SEMESTER: I SUBJECT : Maths and Stats MONTH: Aug-Sep ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT I Shares and Mutual Funds	**Shares:** Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares. Simple examples.	08	Securities Laws & Regulation of Financial Market : Intermediate Course Paper 8, Institute of Company Secretaries of India, Chapter 11.	Chalk and board
	Mutual Funds: Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.)	07	Indian Mutual Funds Handbook : By Sundar Shankaran, Vision Books, 2006, Sections 1.7,1.8.1, 6.5 & Annexures 1.1to 1.3.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (I, J, K)

SEMESTER: I SUBJECT : Maths and Stats MONTH: Aug-Sep ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT II	**Permutation and Combination**: Factorial Notation, Fundamental principle of counting, Permutation as arrangement, Simple examples, combination as selection, Simple examples, Relation between r n C and r n P Examples on commercial application of permutation and combination	09	Applied Calculus: By Stephen Waner and Steven Constenoble, Brooks/Cole Thomson Learning, second edition, Chapter 1 to 5.	Chalk and board

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Permutation, Combination and Linear Programming Problems	**<u>Linear Programming Problem</u>**: Sketching of graphs of (i) linear equation Ax + By + C = 0 (ii) linear inequalities. Mathematical Formulation of Linear Programming Problems upto 3 variables. Solution of Linear Programming Problems using graphical method up to two variables.	06		Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (L ,O)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT IV ELEMENTARY PROBABILITY THEORY	**Probability Theory**: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: $P(A \cap B) = P(A)\,P(B)$. Simple examples.	08	Operations Research by Gupta and Kapoor 12.	Chalk and board
	Random Variable: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.	07	Operations Research by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (L)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT V DECISION THEORY	Decision making situation, Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision. Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I,J,K,L,M)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS	**Measures of Central Tendencies**: Definition of Average, Types of Averages: Arithmetic Mean,Median, and Mode for grouped as well as ungrouped data. Quartiles, Deciles and Percentiles. Using Ogive locate median and Quartiles. Using Histogram locate mode. Combined and Weighted mean.	08	Mathematics for Business Economics: By J. D. Gupta, P. K. Gupta and Man Mohan, Tata Mc- Graw Hill Publishing Co. Ltd., 1987, Chapters 9 to 11 & 16.	Chalk and board

Rinkal Das

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TEACHING PLAN (UNIT PLAN)

UNIT III SUMMARIZATION MEASURES	**Measures of Dispersions**: Concept and idea of dispersion. Various measures Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Combined Variance.	07	STATISTICS by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT IV ELEMENTARY PROBABILITY THEORY	**Probability Theory**: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: $P(A \cap B) = P(A)\,P(B)$. Simple examples.	08	Operations Research by Gupta and Kapoor 12.	Chalk and board
	Random Variable: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.	07	Operations Research by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Rinkal Das

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I,J,K)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED.
MATHEMATICAL AND STATISTICAL METHODS UNIT V DECISION THEORY	Decision making situation, Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision. Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Rinkal Das

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: FYBCOM SEMESTER: I (Subject :Financial accounting)

MONTH: Aug – Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the methods of stock valuation , difference between capital and revenue items and learn the method of hire purchase accounting

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1: Stock Valuation	Introduction to Stock valuation, periodic and perpetual inventory system, FIFO method, it's advantages and disadvantages, weighted average method, it's advantages and disadvantages, practical sums	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 2: Capital and Revenue	Meaning of Capital expenditure and revenue expenditure, it's examples, meaning of Capital receipt and revenue receipts, it's examples, practical illustrations	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 3: Accounting for		15	Financial	Chalk and duster, discussion, Google classroom, PDFs etc

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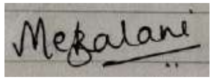
TEACHING PLAN (UNIT PLAN)

Hire Purchase syste m			Accounting by SN Maheshwari	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____



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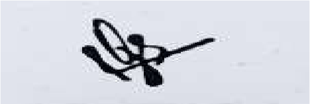

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA MONALI SANKHE DEPARTMENT: ACCOUNTANCY

SEMESTER: I MONTH: October Academic Year: 2022-23

CLASS: F Y B Com Div. M AND N

LEARNING OBJECTIVE/S: The learners will be able to :
have knowledge of preparation of financial statements and financial schedules

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy & Financial Management	**1. Accounting Standards Issued by ICAI and Inventory Valuation • Accounting Standards:** **AS – 1: Disclosure of Accounting Policies** **AS – 2: Valuation of Inventories (Stock)** **AS – 9: Revenue Recognition**	03	*Manan Prakashan*	Chalk & talk, Black-Board Method; Group Discussion,
	2. Departmental Accounting	15		
	3. Branch Accounting	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Padmaja Joshi DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: I (Subject : Business Communication

MONTH: July-November ACADEMIC YEAR: 2022-23

- LEARNING OBJECTIVE/S: To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Unit I : Theory of Communication	Concept of Communication · Meaning · Definition · Process · Need · Feedback · Emergence of Communication as a key concept in the Corporate and Global world	**05**	Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial	Google classroom, T, blackboard, youtube
Unit 2: Communication at the Workplace	i. Channels of Communication (03) Formal and Informal – Vertical, Horizontal, Diagonal and Grapevine ii. Methods of Communication (05) Semester III: Applied Component: Paper-I Total Credits: 02 Course Title: Business Communication Verbal, Non-Verbal and Visual (including	29		Google classroom, PPT, blackboard, youtube

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

	ii. Kinesics, Para-Language, Proxemics, Silence, Sign, Signal and Symbol) iii. Business Etiquette (04) Office Etiquette, Internet Etiquette / Netiquette, Business Card Etiquette, Handshake Etiquette, Mobile Phone Etiquette iv. Barriers to Communication and Ways to Overcome Them (06) Physical or Environmental, Semantic or Language, Psychological and Cross-Cultural Barriers Ways to Overcome these Barriers v. Listening (04) What is Listening? The Listening Process Importance of Good Listening How to Develop Effective Listening Skills Obstacles to Listening vi. Business Ethics (07) What is Ethics? Business Ethics? Importance of Business Ethics at Workplace Digital Ethics Environmental Ethics Ethics in International Business Corporate Social Responsibility		Correspondence. Oxford UP, 1992. Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective	
Unit 3: New Media in Communication	· Impact of Technology Enabled Communication · Video Conference: Skype, Google Meet, Go-To-Meeting and Jio-Meet · Social Media: WhatsApp, Twitter, Facebook, Instagram, Telegram and Blog	07	Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and	Google classroom, PPT, blackboard, youtube

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TEACHING PLAN (UNIT PLAN)

Unit 4: Business Correspondenc	i. Theory of Business Letter Writing · Principles of Effective Letter Writing · Parts of a Business Letter · Layout of a Business Letter (Full Block) ii. Personnel Correspondence Job Application Letter and Resume Letter of Recommendation Letter of Appointment Letter of Acceptance of Job Offer Letter of Appreciation Letter of Resignation	14	Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005.	Google classroom, PPT, blackboard, youtube

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 55

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PALLAVI G NAIK DEPARTMENT: COMMERCE CLASS: FYBCOM SEMESTER: I MONTH: AUG TO NOV

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Understand some of the most significant theories and principle

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUISNESS ECONOMICS I	MODULE I INTRODUCTION SCOPE AND IMPORTANCE OF BUISNESS ECONOMICS. BASIC CONCEPTS OF BUSINESS ECONOMICS ANALYSIS,OPPORTUNITY COST,INCREMENTAL AND MARGINAL CONCEPTS,MARGINAL ANALYSIS,FUNCTIONAL RELATIONS AND TOOLS FOR ECONOMIC ANALYSIS. CH 2 MARKET DEMAND AND SUPPLY DEMAND ,SUPPLY,MARKET EQULIBRIUM,CHANGES IN MARKET EQULIBRIUM MODULE II DEMAND ANALYSIS INTODUCTION,DEMAND,SUPPLY,MARKET EQUILIBRIUM,CHANGES IN MARKET EQUILIBRIUCH 3 DEMAND FUNCTION THE LAW OF DEMAND,DETERMINATS 0F DEMAND,DEMAND FUNCTION,PRICE INCOME AND SUBSTITUTION EFFECT,NATURE OF	8	MANAN PRAKASHAN	BLACKBORD AND CHALK GOOGLE CLASSROOM

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	DEMAND CURVE UNDER DIFFERENT MARKET MODULE II DEMAND ANALYSIS CH 4 ELASTICITY OF DEMAND PRICE ELASTICITY,INCOME ELASTICITY,CROSS ELASTICITY,PROMOTIONAL ELASTICITY OF DEMAND,IMPORTANCE OF ELASTICITY OF DEMAND CH 5 DEMAND ESTIMATION AND FORCASTING SIGNIFICANCE OF DEMAND FORECASTING TYPES, STEPS IN DEMAND FORECASTING METHODS OF DEMAND FORCASTING MODULE III SUPPLY AND PRODUCTION DECISIONS CH 6 THEORY OF PRODUCTION PRODUCTION FUNCTION,ISOQUANTS,RIDGE LINES,LEAST COST COMBINATION OF INPUTS,EXPANSION PATH CH 7 SHORT RUN AND LONG RUN ANALYSIS OF PRODUCTION TYPES OF PRODUCTION FUNCTION,LAW OF VARIABLE PROPORTIONS,LAWS OF RETURNS TO SCALE CH 8 ECONOMIES AND DISECONOMIES OF SCALE INTERNAL AND EXTERNAL DISECONOMIES ECONOMIES OF SCOPE.			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______8____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SACHI ARJUN KADAM DEPARTMENT: Accountancy CLASS: FYBAF SEMESTER: I_ (Subject : Cost Accounting)

MONTH: Oct ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Cost Accounting – Introduction and Elements of Cost				
Introduction to Cost Accounts	Evolution Objectives and Scope of Cost Accounting Importance and Advantages of Cost Accounting Difference between Cost Accounting and Financial Accounting Limitations of Financial Accounting Definitions: Cost, Costing and Cost Accounting Classification of Cost on Different Bases Cost Allocation and Apportionment Coding System Essentials of Good Costing System 2	10	Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai	Online/ Google Meet / PPT

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TEACHING PLAN (UNIT PLAN)

	Labour Prctical Problem Merrick system, Taylor, halsey, rowan Material FIFO , weighted avg method	5 5		
Overheads	Overheads: The Concept Classification of overheads on different bases Apportionment and Absorption of Overheads	15	Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana	Online/ Google Meet / PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEIDA DEPARTMENT:__Commerce____CLASS:__FYBCOM SEMESTER: I_____(Subject : Commerce__)

MONTH: JUNE ACADEMIC YEAR:_2022-23___

LEARNING OBJECTIVE/S: _To be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of businesses

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
UNIT 1	OBJECTIVES OF BUSINESS : Steps, classification, reconciliation of economic & social objectives			

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TEACHING PLAN (UNIT PLAN)

UNIT II **BUSINESS ENVIRON MENT**	INTRODUCTION : Concept, importance, inter-relationship between business and environment	11	Introduction to commerce, Vikram , Amit, Atlantic pub Essentials of business environment- Ashwathappa	Chalk and board

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	CONSTITUENTS OF BUSINESS ENVIRONMENT: Internal and external environment, educational environment and its impact INTERNATIONAL ENVIRONMENT: Current trends in the world, international trading environment-WTO and trading blocks and their impact on Indian business			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11____

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Project Planning	INTRODUCTION : Business planning process, concept and importance of project planning, project report, feasibility study types and its importance	**11**	Introduction to commerce, Vikram , Amit, Atlantic pub	**Chalk and board**
	BUSINESS UNIT PROMOTION: Concept and stages of business unit promotion, factors affecting location, role of government in promotion		Essentials of business environment- Ashwathappa	
	STATUTORY REQUIREMENTS: Licensing and registration, procedure, filing returns and other documents, other important legal provisions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11____

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Women Entrepreneur	INTRODUCTION : Concept, importance, factors – growth of entrepreneurship, intrapreneurs ENTREPRENEURSHIP : Types, competencies, training & development centres, incentives to entrepreneurs WOMEN ENTREPRENEURS : Problems, promotion	11	Introduction to commerce, Vikram , Amit, Atlantic pub	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: COMMERCE CLASS: FYBCOM(A,B,C,D) SEMESTER: II

(Subject: FOUNDATION COURSE - II) MONTH: DEC- MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: By the end of the session Students will be able to:

The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	Concepts of liberalization, privatization and globalization. Growth of information technology and communication and its impact manifested in everyday life. Impact of globalization on industry: changes in employment and increasing migration. Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 2 Human Rights	a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD

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	d] Fundamental Rights in Constitution			• INTERACTIVE METHOD
UNIT 3 Ecology	a] Concept of environment & ecology. b] Importance of environmental studies, Environment as a Natural capital & quality of human life. c] Environmental Degradation, Causes, Impact on human life d] Sustainable Development – Concept, Components e] Poverty & Environment	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 4 Understanding Stress & Conflicts	Causes of stress & Conflicts in individual & society. Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotypying & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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UNIT 5 Managing stress & conflict in Contemporary Society	Types of conflicts and use of coping mechanisms for managing individual stress. Maslow's theory of self-actualisation. Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AARADHANA R SINGH DEPARTMENT: COMMERCE CLASS: FYBCOM (K and L) SEMESTER: II (Subject : COMMERCE II)

MONTH: DECEMBER TO MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to:

- Understand the meaning of services.
- Get knowledge of E-commerce and retailing its format.
- Interpret global trend in service sector and the future opportunities

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT I: CONCEPT OF SERVICES	• **Introduction** : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context. • **Marketing Mix for Services**: Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people. • **Service Strategies**: Market research and services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	12	Management Of Service Sector, Bhatia, B S, V P Pub	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

UNIT – 2 Retailing	• **Introduction**: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers • **Retail Format**: Store format, Non – Store format, Store Planning, design and layout • **Retail Scenario**: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management – RetailFranchising. FDI in Retailing, Careers in Retailing	12	Learning retailing Management, Levy Michael., Weitz Barton A,Tata Mcgraw Hill	Chalk-board, discussion, example and test
Unit-3 Recent trends in service sector	• **ITES Sector**: Concept and scope of BPO, KPO, LPO and ERP • **Banking and Insurance Sector**: ATM, Debit & Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India. **Logistics**: Net-working – Importance – Challenges.	12	Management of services sector-Bhatia	Chalk-board, discussion, example and test
Unit -4	• **Introduction**: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce	09	introduction To E – Commerce,	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

E-commerce	• **Types of E-Commerce**: Basic ideas and Major activities of B2C,B2B, C2C. • **Present status of E-Commerce in India**: Transition to E-Commerce in India, E-Transition Challenges for Indian Corporates; on-line Marketing Research.		Dhawan, Nidhi, International Book House	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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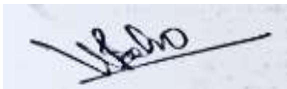

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1	Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage,	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	New Age Media: Digital Media / Internet Advertising – Forms, Significance and Limitations	03		

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TEACHING PLAN (UNIT PLAN)

Media in Advertising	Media Research: Concept, Importance, Tool for regulation - ABC and Door darshan Code	05	Subroto Sengupta, 2005, Tata McGraw Hill Publication.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
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PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
	Advertising Campaign: Concept, Advertising Campaign Planning -Steps Determining advertising objectives - DAGMAR model	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning

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MODULE 2 Planning Advertising Campaigns	Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs	03	Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	tools (google meet, google form Google classroom, PPTs)
	Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
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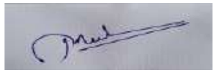

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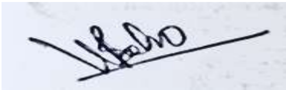

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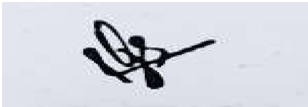

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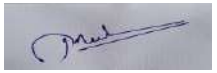
PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 3 Execution and Evaluation of Advertising	Creativity: Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization	03	Brand Equity & Advertising-Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Creative aspects: Buying Motives - Types, Selling Points- Features, Appeals – Types, Concept of Unique Selling Preposition (USP)	03		
	Creativity through Endorsements: Endorsers – Types, Celebrity Endorsements – Advantages and Limitations, High Involvement and Low Involvement Products	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II



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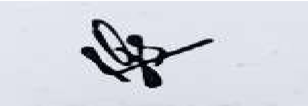

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVE/S:
1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 4 Fundamentals of Creativity in Advertising	Preparing print ads: Essentials of Copywriting, Copy – Elements, Types, Layout- Principles, Illustration - Importance.	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Creating broadcast ads: Execution Styles, Jingles and Music – Importance, Concept of Storyboard	04		
	Evaluation: Advertising copy, Pre-testing and Post-testing of Advertisements – Methods and Objectives	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: FYBCOM SEMESTER: 2 (Subject : Financial Accounting)

MONTH: DECEMBER - MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 Accounting for Incomplete Records	Introduction, Entries, Format. Opening Statement of Affairs . Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom
UNIT 2 Consignment Accounts	Introduction to consignment , Consignee, Consignor. Format and journal entries for the same. Practical problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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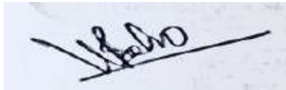

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: FYBCOM (E, F) SEMESTER: II (Subject : Commerce II)

MONTH: December- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To introduce learners with different concepts of services.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
UNIT I: CONCEPT OF SERVICES	Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context Marketing Mix for Services : Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people Service Strategies : Market research and services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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UNIT II RETAILING	INTRODUCTION : Concept of organised & unorganised retailing, trends in retailing, growth of organised retailing, survival strategies for unorganised retailing Retail scenario : Retail scenario in India, retail scenario in global context, prospects & challenges in India, mall management, retail franchising, FDI Retail format : Store format, non-store format, store planning	11	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board
UNIT III Recent trends in service sector	ITES SECTOR :BPO, KPO, LPO,ERP BANKING & INSURANCE SECTOR : ATM, DEBIT CARD, CREDIT CARD, Internet banking, opening of insurance sector for private players, FDI & its impact on banking & insurance sector in India Logistics: Elements, importance and challenges	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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UNIT IV E-Commerce	Introduction :Meaning, Features, Functions and Scope of E-Commerce – Importance and Limitations of E-commerce Types of E- Commerce :Basic ideas and Major activities of B2C, B2B, B2C Present Status of E- Commerce in India : Transition to E- Commerce in India, E-Transition Challenges for Indian Corporates, On-line Marketing Research	08	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 43

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ashlesha Maurya** DEPARTMENT: **Commerce** CLASS: **F.Y.B. Com (Div- N)** SEMESTER: **II**

MONTH: December to March ACADEMIC YEAR: 2022-2023 Subject: Environmental Studies

LEARNING OBJECTIVES:

The learners will be able to understand about solid waste and the problems associated with their improper management. They will learn about proper waste handling and treatment done by MCGM.

UNIT 1	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management	1. Classification of solid wastes – Types and Sources of Solid Waste	3	1.Environmental studies: P.G. Shinde 2. A Textbook of Environmental	Teaching Method: 1. lecture method 2. discussion method Teaching aid: Google forms, Power point presentation, chalkboard
	2. Effects of Solid Waste Pollution- Health hazards, Environmental Impacts	3		

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for Sustainable Society	3. Solid Waste Management	3	Chemistry and Pollution Control: S.S.Dara	
	4. solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in Mumbai	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVES:

The learners will be able to understand about the different types of environmental problems associated with agriculture and Industries. They will also learn about sustainable agricultural & industrial practices.

UNIT 2	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D (Accountancy)

SIGNATURE OF THE H.O.D (Commerce)

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

		ALLOTED		
Agriculture and Industrial Development	1. Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation ,desertification	3	Environmental studies: P.G. Shinde 2. A Textbook of Environmental Chemistry and Pollution Control: S.S.Dara	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2.Uneven Food Production – Hunger, Malnutrition and Food Security – Sustainable Agricultural practices	3		
	3. Environmental Problems Associated with Industries – pollution	3		
	4. Global warming, Ozone Layer Depletion , Acid rain	2		
	5. Sustainable Industrial practices – Green Business and Green Consumerism, Corporate Social Responsibility	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:

The learners will be able to understand about the various tourism types, tourism potentials in India and challenges before India. They will learn about positive and negative impacts of tourism

UNIT 3	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Tourism and Environment	1. Tourism: Meaning, Nature, Scope and importance	2	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Typology of tourism- classification	3		
	3. Tourism potentials in India and challenges before India, New tourism Policy of India	3		
	4. Consequences of tourism : Positive and Negative Impacts on Economy, Culture and environment	3		

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TEACHING PLAN (UNIT PLAN)

	5. Ecotourism	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

LEARNING OBJECTIVES:

The learners will be able to understand about various environmental movements in India. They will learn the concepts of Environmental Management, ISO, EIA. They will also understand Concept and components of Geospatial Technology.

UNIT 4	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghat and Save Jaitapur	4	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method

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TEACHING PLAN (UNIT PLAN)

Environmental Movements and Management	2. Environmental Management: Concept, need and relevance; Concept of ISO 14000 and 16000; Concept of Carbon Bank and Carbon Credit	3		Teaching aid: Google forms, Power point presentation,chalkboard
	3. .EIA - Environment Protection Acts	2		
	4. Concept and components of Geospatial Technology- Applications of GST in Environmental Management.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

LEARNING OBJECTIVES:

The learners will be able to learn about map fillings which will give them an idea of spatial distribution of environmental problems

UNIT 5	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Reading of Thematic Maps and Map Filling	1. Map filling of Konkan (Environmentally significant features)using point, line and polygon segment.	4	Environmental studies: P.G. Shinde	Teaching Method: 1. Lecture method 2.Discussion method 3.Demonstration method Teaching aid: Chalkboard
	2. Map filling of Mumbai (Environmentally significant features) using point, line and polygon segment.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. BRISTI BISWAS **DEPARTMENT**: Business Economics **CLASS**: FYBCOM **SEMESTER**: II (**Subject**: BUSINESS ECONOMICS)

MONTH: DEC 2022-MARCH 2023 **ACADEMIC YEAR**: 2022-2023

LEARNING OBJECTIVE/S: To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 Market Structure: Perfect competition and Monopoly	**Perfect Competition:** Features, Equilibrium of firm and industry in the short run and long run.	10	H.L Ahuja Advanced Economic Theory	Chalk and Board Discussion Case studies
	Monopoly: Features, Sources of monopoly, short and long-run equilibrium		H.L Ahuja	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Unit 2: Imperfect Competition			Advanced Economic Theory	Discussion Case studies
Unit 3: Pricing Practices	**Monopolistic Competition:** Features, Short run equilibrium, group equilibrium, effects of selling cost, role of advertisement, perfect competition vs. monopolistic competition **Oligopoly**: Features, Collusive and Non-collusive oligopoly, kinked demand curve, cartel formation, price leadership	10	H.L Ahuja Advanced Economic Theory	Chalk and Board
Evaluating capital projects	**Pricing Practices:** Price discrimination, marginal cost pricing, mark-up pricing, multiproduct pricing, transfer pricing	10		Chalk and Board
Unit 4:	**Capital Budgeting:** Meaning, importance, steps, Payback period method, NPV, IRR	10		Chalk and Board Case Studies

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: II (Subject: Business Economics II

MONTH: November – March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand dynamics of the markets

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics II	Perfect Competition: Features, Equilibrium of firm and industry in the short run and long run. Monopoly: Features, Sources of monopoly, short and long-run equilibrium	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Monopolistic Competition: Features, Short run equilibrium, group equilibrium, effects of selling cost, role of advertisement, perfect competition vs. monopolistic competition Oligopoly: Features, Collusive and Non-collusive oligopoly,	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	Pricing Practices: Price discrimination, marginal cost pricing, Mark-up pricing, Multi-Product pricing, Transfer pricing		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: Capital Budgeting Meaning and Importance of Capital Budgeting, Payback Method, NPV, IRR		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: _ Accountancy CLASS: F Y B Com (A&B)_ SEMESTER: II (Subject : Accountancy&financial management II)
MONTH: JAN, FEB, MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: _The Lerner will able to understand the Accounting for incomplete records and its importance. They will learn theoretical as well as practical concept about fire insurance claim and its importance. Understand the meaning of Branch along with its types. The learners will able to calculate profit & loss of each branch separately. They are able to ascertain the financial position of each branch separately on a particular date. The learner will able to understand the special features of consignment business, meaning of the term consigner & consignee and difference between two transaction – sales & consignment. Practice the accounting treatments for consignment transactions and events in the books of consigner & consignee.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Accountancy & Financial Management II	Chapter 1: Accounting for Incomplete Records • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account	15	*Advanced Accountancy by R.L Gupta and M. Radha swamy, S. Chand and Company (P) Ltd., New Delhi*	Chalk & talk, Black-Board Method,, MS Office & discussion. Google classroom

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TEACHING PLAN (UNIT PLAN)

	• Problems on Preparation of Final Account of Proprietary (Conversion Method)		Introduction to Accountancy by T.S. Grewal, S.	
	Chapter 1: Accounting for Incomplete Records • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account • Problems on Preparation of Final Account of Proprietary (C **Consignment Accounts** Accounting for Consignment Transactions Valuation of Stock (at Cost Price & at Invoice Price) Invoicing of Goods at Higher Price			
	Branch Accounts Meaning / Classification of Branches Accounting for Dependent Branch (at Cost Price & at Invoice Price) Debtors Method			

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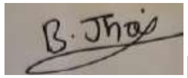
	Stock and Debtors Method			
	Chapter 4: Fire Insurance Claim • Introduction & Meaning • Computing Loss with Stock on Date of Fire, Salvage & Actual Loss • Computing Claim With & Without Average Clause • Memorandum Trading Account • Total Debtors & Total Creditors Account to Ascertain Credit/Cash Sale and Purchase • Problems Solved on the same •			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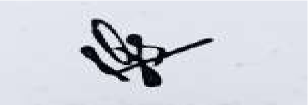

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_60___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **II** (Subject : **BUS. ECONOMICS-II**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Market Structure: Perfect Competition and Monopoly**

The student must be able to understand **Pricing and Output Decisions under Imperfect Competition**

The student must be able to understand **Pricing practices**

The student must be able to understand **Evaluating capital projects**

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TEACHING PLAN (UNIT PLAN)

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - II	**Unit I:** **Perfect competition and Monopoly models** as two extreme cases - profit maximisation and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - Monopoly - Sources of monopoly power – short run and long run equilibrium of a firm under Monopoly	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases*	Google classroom, Google Forms
	Unit II: Monopolistic competition: Competitive and Monopolistic elements of monopolistic competition- equilibrium of firm under monopolistic competitions, monopolistic verses perfect competition, excess capacity and inefficiency, debate over role of advertising, (topics to be	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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TEACHING PLAN (UNIT PLAN)

	taught using case studies from real life examples) ***Oligopolistic Market***: Key attributes of oligopoly- Collusive and non-collusive oligopoly market, Price rigidity, Cartels and price leadership models(with practical examples)			
	Unit III: ***Unit III***: Cost oriented pricing methods: cost –plus (full cost)/mark-up pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)	**10 lectures**		

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TEACHING PLAN (UNIT PLAN)

	Unit IV: Evaluating capital projects Meaning and importance of capital budgeting- steps in capital budgeting- Techniques of Investment appraisal: payback period method, net present value method, and internal rate of return method (with numerical examples)	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Suborna S. Banerjee **DEPARTMENT**: Commerce **CLASS**: FYBCOM **SEMESTER:** II

SUBJECT : Bussiness Communication 2 MONTH: Dec to April

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills.

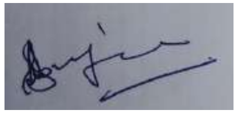
The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.

To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED	
1) Group Communication	1) Interviews: 2) meetings: 3) Committees & Conferences: 4) Public Relations:	15	Manan Publication, Sheth Publication, Vipul Publication	PPT and Sketches	

2) Business correspondence	1) Trade Letters	15	From Internet	Chalk – Talk Method	
3) Language and writing skills	1) Reports & Business Proposals 2) Summarization	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk – Talk Method	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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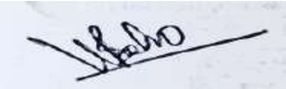

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of services.
2. To make student able to identify elements of marketing mix, Service Strategies and it's implementation in service sector.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 1: CONCEPT OF SERVICES	• Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context.	4	Service Marketing – Temani Management of Service sector - Bhatia	1. Lecture and discussion . 2. Flow charts.
	• Marketing Mix for Services : Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people.	4		
	• Service Strategies : Market research and			

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TEACHING PLAN (UNIT PLAN)

	services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 ×2 div = 24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of organized and un-organized retailing.
2. To make student able to identify essentials of store formates.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Introduction: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers	4	Introduction To Retailing,Lusch, RobertF.,Dunne, PatrickM.,Carver ,JamesR.,Cengag eLearning	Lecture and discussion . Flow charts.

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TEACHING PLAN (UNIT PLAN)

MODULE 2 RETAILING	Retail Format: Store format, Non – Store format, Store Planning, design and layout	4	Retailing Management, Levy Michael., Weitz Barton A,Tata Mcgraw Hill	
	Retail Scenario: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management – RetailFranchising. FDI in Retailing, Careers in Retailing	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 ×2 div = 24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of services outsourcing

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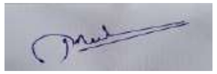
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED



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TEACHING PLAN (UNIT PLAN)

MODULE 3 RECENT TRENDS IN SERVICE SECTOR	ITES Sector: Concept and scope of BPO, KPO, LPO and ERP.	4	Management Of Service Sector, Bhatia, B S, V P Pub	Lecture and discussion . Flow charts.
	Banking and Insurance Sector: ATM, Debit & Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India	4		
	Logistics: Net working – Importance – Challenges	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 ×2 div = 20

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts and importance of E-commerce.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 4 E-COMMERCE	Introduction: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce	4	Introduction To E – Commerce, Dhawan, Nidhi, International Book House	Lecture and discussion . Flow charts.
	Types of E-Commerce:Basic ideas and Major activities of B2C,B2B, C2C.	4		
	Present status of E-Commerce in India:Transition to E-Commerce in India, E-Transition Challenges for Indian Corporates; on-line Marketing Research.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 ×2 div = 22

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: FYBCOM (ALL DIVISIONS) SEMESTER: II (Subject : NSS FC II)

MONTH: DECEMBER TO FEBRUARY   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 **Volunteerism & Communication Skills**	**UNIT -I Concept of Volunteerism Meaning & Features** Need of Training for volunteerism Role Models of Volunteerism in India Leadership - Meaning & Attributes Communication Skills - Meaning. Types & Importance **UNIT - II Strategic Planning** - Meaning, Characteristics, Requirement of Successful implementation of Programmes. Importance of Planning and Limitations of Planning	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

			Service Scheme Manual,2009.	
UNIT-2 **Socio-Economic Survey of Village/Slum adoption**	**UNIT I- Meaning & Needs of Socio-Economic Survey** • Process of Socio-Economic Survey ✓ Design of Questionnaire (Population, Literacy, Family) ✓ Design of Interview, Education, Income Data Analysis (Introduction of Different Tools). **UNIT - II Introduction of various Government Agencies necessary for Policy making of Development.** ✓ Census ✓ National Sample Survey Organization (NSSO) ✓ National Family Health Survey (NFHS) ✓ Introduction of various schemes introduce by Govt. for the Socio Economic	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

	Upliftment of the Farmers and Rural Populations			
Unit 3 Special Camp	**UNIT – I Nature & Objectives of Activities** • Selection of Camp Site • Identification of Specific Theme • Co-ordination with Local Planning Government and other Agencies. • Ice breaking &team building activities. **UNIT - II Feedback / Evaluation** Post Camping activities	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
	UNIT - I Structure of Government Organisations and Non – Government Organisations (Co-ordination of National Service Scheme (NSS) with Government Organisations (GO) and Non – Government Organisations (NGO)). Grants for NSS From GO's for Activities	13	1. Service Scheme Manual (Received) Government of India Ministry of	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT4 : **Government Organisations / Non – Government Organisations**	• Regular Activities • CampingActivities • Other Programme Development Scheme E.g. HIV-AIDS-MADAC, Blood Donation		Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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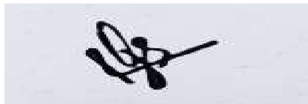

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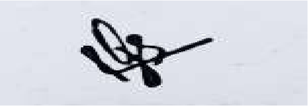

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Delcy Lopes DEPARTMENT: Accountancy CLASS: F.Y.B. Com. SEMESTER: I (Subject : Financial Accounting)

MONTH: DECEMBER - MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit - 1	**Accounting for Incomplete Records-** Introduction, Entries, Format. Opening Statement of Affairs. Practical Problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2	**Consignment Accounts-** Introduction to consignment, Consignee, Consignor. Format and journal entries for the same. Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -3	**Branch Accounts** Meaning, types, Stock system, Stock – Debtor system Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Unit – 4	**Fire Insurance claims** Meaning, features, formula, format, practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: F.Y.BCom SEMESTER: II Subject: FINANCIAL ACCOUNTING

MONTH: DEC, JAN, FEB & MAR ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3 & 4	**Accounting for Incomplete Records** • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account • Problems on Preparation of Final Account of Proprietary (Conversion Method)	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Consignment Accounts Accounting for Consignment Transactions Valuation of Stock (at Cost Price & at Invoice Price) Invoicing of Goods at Higher Price & Practical problem solved	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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TEACHING PLAN (UNIT PLAN)

	Branch Accounts Meaning / Classification of Branches Accounting for Dependent Branch (at Cost Price & at Invoice Price) Debtors Method Practical Problem Solve Stock and Debtors Method Problems Solved on the same	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Fire Insurance Claim • Introduction & Meaning • Computing Loss with Stock on Date of Fire, Salvage & Actual Loss • Computing Claim With & Without Average Clause • Memorandum Trading Account • Total Debtors & Total Creditors Account to Ascertain Credit/Cash Sale and Purchase • Problems Solved on the same	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Snehal S. Jadhav DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: II (Subject : Environmental Studies)

MONTH: July ACADEMIC YEAR : 2022 - 2023

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge about the Environment, its components and Environmental problems. It will help to create awareness about protection of environment and natural Resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental Studies - I	Unit I : Solid Waste Management for Sustainable Society : Classification of solid wastes – Types and Sources of Solid Waste ; Effects of Solid Waste Pollution- Health hazards, Environmental Impacts; Solid Waste Management – solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in urban and rural areas.	13	Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk and Board
	Unit–II:AGRICULTURE & INDUSTRIAL DEVELOPMENT. 1)Environmental Problems Associated with Agriculture :Loss of Productivity,Land Degradation,desertification. 2)Uneven Food Production–	13	SantraS.C.,2004,‘ Environmental Science’,New Central Book agencyPvtLtd,	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Hunger,Malnutrition and Food Security– Sustainable Agricultural practices. 3)Environmental Problems Associated with Industries–Pollution-Global Warming,Ozone Layer Depletion, Acidrain,- Sustainable Industrial practices.		Kolkata.	
	Unit–III:TOURISM AND ENVIRONMENT 1)Tourism:Meaning,Scope And Importance,Typology Of Tourism classification;Tourism potentials in India and challenges Before India;New Tourism Policy of India 2)Consequences Of Tourism:Positive and Negative Impacts on Economy, Culture and environment. 3)Ecotourism.	13	Saxena M. ,2000, N. 'Environmental Management', Rawat Publication,New Delhi. Environmental Management By N.K.Uberoi	Chalk and Board
	UNIT IV : Solid Waste Management for Sustainable Society : Classification of solid wastes – Types and Sources of Solid Waste ; Effects of Solid Waste Pollution- Health hazards, Environmental	13		Chalk and Board

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	Impacts; Solid Waste Management – solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in urban and rural areas.			
	MapfillingkonkanMap	02	Sheth Publication & Vipul Prakashan	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SMITA KHAIRE __ DEPARTMENT: Commerce (Interdisciplinary)__CLASS: _F.Y.B.COM__SEMESTER: II__ (Subject : _EVS_______)

MONTH: _December-March___________ ACADEMIC YEAR: _2022-23_________

LEARNING OBJECTIVE/S: _The learners will be able to acquire a knowledge and understanding about the Environment, its components and Environment problems. It will help to create awareness about protection of the Environment.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental studies (K ,L,M)	Unit 1: Solid waste management for sustainable society Classification of solid waste- types and sources of solid waste; effects of solid waste pollution- Health hazards, Environmental impact; Solid Waste Management Solid Waste Management in Mumbai – schemes and initiatives by MCGM role of citizen in waste management in urban and rural areas.	13	Environmental Science by Santra S.C	Lecture method Chalk-Board Method
	Unit 2: Agricultural and Industrial development Environmental problems associated with Agriculture; loss of productivity, Land degradation, Desertification, uneven food production – Hunger, Malnutrition and food security; Sustainable Agricultural Practices. Environmental problems associated with Industries; Pollution, Global warming, Ozone layer depletion, Acid rain, Sustainable Industrial practices- Green business and Green consumption, Corporate social responsibility towards environment.	13	Essential of Ecology and Environment by S.V.S Rana.	Lecture method Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

	Unit 3: Definition, Meaning, Nature, Scope, importance of Tourism, Typology of Tourism, Tourism Potentials in India, Challenges faced by India, National Tourism Policy, Impact of Tourism on Economy, Culture and Environment, Ecotourism.	13		Lecture method Chalk-Board Method
	Unit 4: Environmental Movements and Management: Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats Movement; Environmental Management: Concept, need and relevance; Concept of ISO 14000 and 16000; Concept of Carbon Bank and Carbon credits, EIA, Ecological footprint; Environmental protection Acts; Concept and components of Geospatial technology Application of GST in Environmental management.	13	Environmental management by H.V. Jadhav	Lecture method Chalk-Board Method
	Map filling of Konkan and Mumbai	4	Sheth and Vipul Publication	Lecture method Chalk-Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_13___

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: COMMERCE CLASS: FYBCOM(A,B,C,D) SEMESTER: II

(Subject: FOUNDATION COURSE - II) MONTH: DEC- MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: By the end of the session Students will be able to:

The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	Concepts of liberalization, privatization and globalization. Growth of information technology and communication and its impact manifested in everyday life. Impact of globalization on industry: changes in employment and increasing migration. Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 2 Human Rights	a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD

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TEACHING PLAN (UNIT PLAN)

	d] Fundamental Rights in Constitution			• INTERACTIVE METHOD
UNIT 3 Ecology	a] Concept of environment & ecology. b] Importance of environmental studies, Environment as a Natural capital & quality of human life. c] Environmental Degradation, Causes, Impact on human life d] Sustainable Development – Concept, Components e] Poverty & Environment	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 4 Understanding Stress & Conflicts	Causes of stress & Conflicts in individual & society. Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotypying & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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TEACHING PLAN (UNIT PLAN)

UNIT 5 Managing stress & conflict in Contemporary Society	Types of conflicts and use of coping mechanisms for managing individual stress. Maslow's theory of self-actualisation. Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF- JINAL CHOHAN DEPARTMENT: COMMERCE CLASS: FY BCOM SEMESTER: II (Subject : COMMERCE -II

MONTH: November - March ACADEMIC YEAR: 22-23

LEARNING OBJECTIVE/S: TO GAIN THE KNOWLEDGE OF MANAGEMENT

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1	.Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context. • Marketing Mix for Services: Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people. • Service Strategies:	10	Principles of management by Philip Kotler And Essential of Management by Koontz	CHALK & DUSTER
UNIT 2	Introduction: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers • Retail Format: Store format, Non – Store format, Store	10		

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TEACHING PLAN (UNIT PLAN)

	Planning, design and layout • Retail Scenario: Retail Scenario in India and Global			
UNIT 3	ITES Sector: Concept and scope of BPO, KPO, LPO and ERP • Banking and Insurance Sector: Logistics: Net-working – Importance – Challenges.	10		
	Introduction: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce			
UNIT 4	Types of E-Commerce: Basic ideas and Major activities of B2C,B2B, C2C. • Present status of E-Commerce in India: Transition to E-Commerce in India, E-Transition Challenges	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___40_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D)

SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENC E/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II	**Concept of real functions**: constant function, linear function, xn , ex , ax , log x. Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function. Equilibrium Point, Break-even point.	06	Sheth Publication	Chalk and board

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Unit I : Functions, Derivatives and Their Applications	**Derivative of functions**: i. Derivative as rate measure, Derivative of xn , ex , ax , log x. ii. Rules of derivatives: Scalar multiplication, sum, difference, product, quotient (Statements only), Simple problems. Secondorder derivatives. iii. Applications: Marginal Cost, Marginal Revenue, Elasticity of Demand. Maxima and Minima for functions in Economics and Commerce.	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom

(A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit II : Interest and Annuity:	**Interest:** Simple Interest, Compound Interest (Nominal & Effective Rate of Interest),. Calculations involving upto 4 time periods.	06	Sheth Publication	Chalk and board
	Annuity: Annuity Immediate and its Present value, Future value. Equated Monthly Installments (EMI) using reducing balance method & amortization of loans. Stated Annual Rate & Affective Annual Rate Perpetuity and its present value. Simple problems involving up to 4 time periods	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRILACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit III: Bivariate Linear Correlation and Regression	**Correlation Analysis**: Meaning, Types of Correlation, Determination of Correlation: Scatter diagram, Karl Pearson's method of Correlation Coefficient (excluding Bivariate) and Spearman's Rank CorrelationCoefficient.	06	Sheth Publication	Chalk and board
	Regression Analysis: Meaning, Concept of Regression equations, Slope of the Regression Line and its interpretation. Regression Coefficients (excluding Bivariate Frequency Distribution Table), Relationship between Coefficient of Correlation and Regression Coefficients , Finding the equations of Regression lines by method of Least Squares.	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Rinkal Das

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit IV : Time series and Index	**Time series:** Concepts and components of a time series. Representation of trend by Freehand Curve Method, Estimation of Trend using Moving Average Method and Least Squares Method (Linear Trend only). Estimation of Seasonal Component using Simple Arithmetic Mean for Additive Model only (For Trend free data only). Concept of Forecasting using Least Squares Method.	06	Sheth Publication	Chalk and board

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Numbers:	**Index Numbers:** Concept and usage of Index numbers, Types of Index numbers, Aggregate and Relative Index Numbers, Lasperye's, Paasche's, Dorbisch-Bowley's, Marshall-Edgeworth and Fisher's ideal index numbers, Test of Consistency: Time Reversal Test and Factor Reversal Test. Chain Base Index Nos. Shifting of Base year. Cost of Living Index Numbers, Concept of Real Income, Concept of Wholesale Price Index Number. (Examples on missing values should not be taken).	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit V : Elementary Probability Distributions	**Probability Distributions**: i. Discrete Probability Distribution: Binomial, Poisson (Properties and applications only, no derivations are expected) ii. Continuous Probability distribution: Normal Distribution. (Properties and applications only, no derivations are expected)	15	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

RinkalDas

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: FYBCOM SEMESTER: II (Subject :Financial accounting)

MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about the different methods of accounting used.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1: Module 2:	Chapter 1 Introduction to Incomplete Accounting records Meaning, define, scope, advantage and disadvantages, difference between Double entry system and Single entry system, practical problems 1 to 6 Consignment Accounts Meaning, difference between, practical problems	15 15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 3: Branch Accounts	Branch Accounts Meaning, types, Stock system, Stock – Debtor system Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Module 4	Chapter 4 Fire Insurance claims Meaning, features, formula, format, practical problems 1 to 6	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___60_

Mekalani

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Padmaja Joshi DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: II Subject: Business Communication MONTH: Dec-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills.

- The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.
- To make students aware of the importance of developing skills.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Group communication	1) Interviews: 2) meetings: 3) Committees & Conferences: 4) Public Relations:	15	Manan Publication, Sheth Publication,	Blackboard, Chalk, Google classroom

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

Unit 2 Business Correspondence	1) Trade Letters	15	Vipul Publication	Blackboard, Chalk, Google classroom
Unit 3: Languages and writing skills	1.Reports and business prospects 2.Summarisation 3.Tutorial activities	15		Blackboard, Chalk, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:

Pallavi G Naik DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: II (Subject : BUSINESS ECONOMICS)

MONTH: NOVEMBER TO MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Make students learn micro economics application and it's application to business.

A sound knowledge of business Economics.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics II	Module I Market structure: perfect competition and Monopoly Ch 1 Market structure extreme cases of perfect competition and Monopoly, types of market structure Ch 2 perfect competition, meaning and features, behaviour of price TR,MR AND AR Ch 3 Equilibrium of firm and industry In perfect competition, Equilibrium of firm,short run and long run equilibrium of firm Ch 4 Monopoly, meaning, features, sources of Monopoly power Ch 5 Monopolistic competition, meaning features, short run and long run equilibrium and production and selling cost	8	Manan prakashan A.L Ahuja.	Google classroom Blackboard and chalk

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TEACHING PLAN (UNIT PLAN)

	Ch 6 Oligopoly meaning, features,noncollussive and collusive Oligopoly			
	Ch 7 pricing practice I meaning degrees of price discrimination Dumping,conditions of price discrimination			
	Ch 8 pricing practice II Marginal cost pricing Cost plus pricing Transfer pricing Case studies			
	Ch 9 capital budgeting Importance of capital budgeting Importance of capital budgeting Steps in capital budgeting NPV,IRR, Comparison			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 8

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Commerce CLASS: FYBcom SEMESTER: II (Subject : EVS)MONTH: Jan - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Rights of Consumers, Information and protection of citizens and the Acts and also understand the different approaches to Ecology and Principles of Environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management forSustainable Society	1.Classificationofsolidwastes–TypesandSourcesof Solid Waste. 2.EffectsofSolidWastePollution-Healthhazards, Environmental Impacts 3.SolidWasteManagement. 4.solidwaste managementin Mumbai-Schemes andinitiativesrunby MCGM – roleofcitizensin wastemanagementinMumbai	10	Environmental studies: P.G. Shinde	▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

UNIT 2 Agricultureand Industrial Development				
	1.EnvironmentalProblemsAssociatedwithAgriculture: Loss of Productivity, Land Degradation ,desertification 2.UnevenFoodProduction–Hunger,Malnutritionand Food Security – Sustainable Agricultural practices.3.EnvironmentalProblemsAssociatedwithIndustries– pollution. 4.Global warming,OzoneLayer Depletion, Acid rain. 5.SustainableIndustrialpractices – Green BusinessandGreenConsumerism,CorporateSocial Responsibility	13	Environmental studies: P.G. Shinde	

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TEACHING PLAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
FC Unit III Tourism and Environment	1.Tourism:Meaning,Nature,Scopeandimportance 2.Typologyoftourism-classification 3.TourismpotentialsinIndiaandchallengesbeforeIndia, New tourism Policy of India 4.Consequencesoftourism:PositiveandNegativeImpacts onEconomy, Culture and environment 5.Ecotourism	13		▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

Unit IV Environmental Movements and Management	1. Environmental movements in India: Save Narmada Movement,ChipkoMovement,AppikoMovement,Save Western Ghat and Save Jaitapur 2. Environmental Management: Concept, need and relevance;ConceptofISO14000and16000;Conceptof Carbon Bank and Carbon Credit 3..EIA- EnvironmentProtection Acts 4.ConceptandcomponentsofGeospatialTechnology-Applications of GST in Environmental Management.	3		

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TEACHING PLAN

Unit V Reading of ThematicMaps and Map Filling	1.MapfillingofKonkan(Environmentallysignificant features)using point, line and polygon segment. 2.MapfillingofMumbai(Environmentallysignificant features) using point, line and polygon segment.	04		

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TEACHING PLAN

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Commerce CLASS: FYBcom SEMESTER: II (Subject : EVS)MONTH: Jan - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Rights of Consumers, Information and protection of citizens and the Acts and also understand the different approaches to Ecology and Principles of Environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management forSustainable Society	1.Classificationofsolidwastes–TypesandSourcesof Solid Waste. 2.EffectsofSolidWastePollution-Healthhazards, Environmental Impacts 3.SolidWasteManagement. 4.solidwaste managementin Mumbai-Schemes andinitiativesrunby MCGM – roleofcitizensin wastemanagementinMumbai	10	Environmental studies: P.G. Shinde	▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

UNIT 2 Agricultureand Industrial Development				
	1.EnvironmentalProblemsAssociatedwithAgriculture: Loss of Productivity, Land Degradation ,desertification 2.UnevenFoodProduction–Hunger,Malnutritionand Food Security – Sustainable Agricultural practices.3.EnvironmentalProblemsAssociatedwithIndustries– pollution. 4.Global warming,OzoneLayer Depletion, Acid rain. 5.SustainableIndustrialpractices – Green BusinessandGreenConsumerism,CorporateSocial Responsibility	13	Environmental studies: P.G. Shinde	

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TEACHING PLAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
FC Unit III Tourism and Environment	1.Tourism:Meaning,Nature,Scopeandimportance 2.Typologyoftourism-classification 3.TourismpotentialsinIndiaandchallengesbeforeIndia, New tourism Policy of India 4.Consequencesoftourism:PositiveandNegativeImpacts onEconomy, Culture and environment 5.Ecotourism	13		▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

Unit IV Environmental Movements and Management	1. Environmental movements in India: Save Narmada Movement,ChipkoMovement,AppikoMovement,Save Western Ghat and Save Jaitapur 2. Environmental Management: Concept, need and relevance;ConceptofISO14000and16000;Conceptof Carbon Bank and Carbon Credit 3..EIA- EnvironmentProtection Acts 4.ConceptandcomponentsofGeospatialTechnology-Applications of GST in Environmental Management.	3		

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TEACHING PLAN

Unit V Reading of ThematicMaps and Map Filling	1.MapfillingofKonkan(Environmentallysignificant features)using point, line and polygon segment. 2.MapfillingofMumbai(Environmentallysignificant features) using point, line and polygon segment.	04		

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TEACHING PLAN

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Accountancy

CLASS: S Y B Com (Div A) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

Understand the concepts of amalgamation, preparation of account of accounting for amalgamation of partnership firm and its accounting effect. The learners will be able to understand the need, procedure, accounting effect and treatment for conversion of partnership firm into a limited company.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy and Financial Management III	**Amalgamation of Firms** i) Realization method only ii) Calculation of purchase consideration iii) Journal / ledger accounts of old firms iv) Preparing Balance sheet of new firm v) Adjustment of goodwill in the new firm vi) Realignment of capitals in the new firm by current accounts / cash or a combination thereof Excluding Common transactions between the amalgamating firms	15	Shashi K. Gupta – "Contemporary Issues in Accounting", Kalyani Publishers. Ashok Sehgal – "Fundamentals of Financial Accounting", Taxmann's Publishers	GOOGLE CLASSROOM Group Discussion, Chalk & talk, Black-Board Method; Group Discussion
	Conversion / Sale of a Partnership Firm into a Ltd. Company	15		

	(i) Realisation method only (ii) Calculation of New Purchase consideration, Journal / Ledger Accounts of old firms. Preparing Balance sheet of new company			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAKTANA KORE DEPARTMENT: Commerce CLASS: S.Y.B.Com (A) SEMESTER: III

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:
The learners will be able to understand basics of advertising.

UNIT	SUBTOPIC	NO. OF LECTURES ALLOTED	REFERENCES	TEACHING METHOD
UNIT I: INTRODUCTION TO ADVERTISING	• **Integrated Marketing Communication:** Concept and features, elements, role of advertising in IMC	3		Chalk & board method, discussion method
	• **Advertising:** Concept and features, evolution, active participants, benefits to business and consumers	4		

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TEACHING PLAN (UNIT PLAN)

	• **Classification of advertising:** Geographic area, media, audience, functions	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: S.Y.B.Com (E,F) SEMESTER: III

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:
The learners will be able to understand basics of advertising.

UNIT	SUBTOPIC	NO. OF LECTURES ALLOTED	REFERENCES	TEACHING METHOD
UNIT I: INTRODUCTION TO ADVERTISING	**Integrated Marketing Communication:** Concept and features, elements, role of advertising in IMC	3		Chalk & board method, discussion method
	Advertising: Concept and features, evolution, active participants, benefits to business and consumers	4		

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TEACHING PLAN (UNIT PLAN)

	Classification of advertising: Geographic area, media, audience, functions	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: SYBCOM SEMESTER: 3 (Subject : Financial Accounting)
MONTH: June - September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 Piecemeal Distribution	Introduction,Meaning, surplus Capital Method and Maximum loss method. Format of Excess Capital and Statement of Distribution. Practical problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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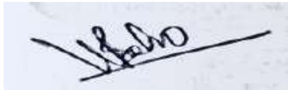

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: S.Y.B.Com (Div. J) SEMESTER: III

MONTH: June to Sept. ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:The learners will be able to understand basics of advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
UNIT I: INTRODUCTION TO ADVERTISING	Communication: Concept and features, elements, role of advertising in IMC Advertising: Concept and features, evolution, active participants, benefits to business and consumers Classification of advertising: Geographic area, media, audience	14		Chalk & board
UNIT II ADVERTISING	Advertising agency: Features, structure and services, types of Ad agencies, agency selection criteria, agency compensation	13		Chalk & board

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AGENCY	Agency and client: Maintaining agency-client relationship, reasons of client turnover, ways of avoiding client turnover, creative pitch Careers in advertising: Skills for career in advertising, career options in advertising, freelancing as a career option			
UNIT III ECONOMIC AND SOCIAL ASPECTS OF ADVERTISING	Economic aspects: Economic impact of advertising, effect on consumer demand, effect on monopoly and competition, effect on consumer price Social aspects: Ethical issues, social and cultural issues, positive and negative influence on Indian culture PRO BONO/SOCIAL ADVERTISING: Pro bono advertising, social advertising through DAVP, self regulatory laws, role of ASCI	11		Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 38

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR   DEPARTMENT: COMMERCE   CLASS: SYBCOM   H, I, J, K, L SEMESTER: III

SUBJECT - BUSINESS LAW -I   MONTH: JUNE – OCTOBER   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to know the meaning of the terms Agreement and contract and note the Distinction between the two.

The learners will be able to know the Concepts of sale and agreement to sell, Definitions, Conditions and Warranty, and Rights of an unpaid seller.

The learners will be able to know the History of negotiable instrument and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module I Indian Contract Act-1872 part -I	Chapter :I-Contract- Definition of Contract and Agreement, Essentials of Valid Contract, Classification of contracts. Chapter :II- Offer and Acceptance - Rules of valid offer and acceptance, Counter offer, standing or open offer, distinguish between offer and invitation to offer.Concept of Communication and Revocation of offer and acceptance.	10	The Indian Contract Act,1872 -Avtar singh Business Law- kapoor N. D.	1) Lecture and Discussion 2) Case Study 3) Black Board, Chalk and Duster

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	Chapter : III- Capacity to Contract - Minor, Unsound Mind, Disqualified persons. Chapter :IV- Consideration - Concept and Importance of Consideration, Legal rules of Consideration, Exceptions to the rule, 'No Consideration No Contract' Unlawful Considertion.		Business law- I, Kalaivani Venkataraman, Vipul prakashan	
Module No.II Indian Contract Act- 1872 Part II	Chapter :I- Consent - Agreements in which consent is not free- Coercion, undue Influence, Misrepresentation Fraud, Mistake. Chapter: II - Void Agreements - Concept, Void Agreement under Indian Contract Act. Chapter : III - Contingent Contract, Quasi Contract, Concept of E-Contract & Legal Issues in formation and discharge of E- Contract. Concept of performance of contract. Chapter : IV- Modes of Discharge of Contract, Remedies on breach of Contract.	10		
Module No. III Special Contracts.	Chapter :I- Law of Indemnity & Guarantee - Concept, Essentials elements of Indemnity and Guarantee, Contract of Indemnity vs. Guarantee, modes of Discharged of Surety.			

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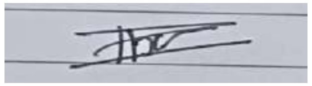
	Chapter : II- Law of Bailment - Concept, Essentials of Bailment, Kinds of Bailment, Rights and Duties of Bailor and Bailee. Chapter - III Law of Pledge - Concept, Essentials of valid Pledge, Lien- Concept, Difference Between Pledge and Lien, Rights of Pawnor and Pawnee Chapeter IV - Law of Agency - Concept, Modes of Creation of Agency, Modes of Termination of Agency, Rights and Duties of Principal and Agent.	10		
Module IV The Sale of Goods Act-1930	Contract of sale- concept, Essentials elements of contract of sale, Distinction between sale and agreement to sell.Distinguish between sale and Hire purchase agreement, types of goods. Effects of destruction of goods Conditions and Warranties- concept, Distinguish between conditions and warranties, Implied Conditions and Warranties, Concept of Doctrine of Caveat emptor - Exceptions. Property - Concept, rules of transfer of property Unpaid seller - Concept, rights of an unpaid Seller, Remedies for breach of contract of sale, Auction Sale - Concept, Legal provisions.	10		



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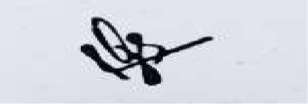

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Module V The Negotiable instruments Act 2015	Negotiable instruments - Concept, Characteristics, Classification of Negotiable instruments Maturity of instruments. Promissory Note and Bill of Exchange Concept, Essentials of promissory Note, Bill of Exchange, Essentials features of promissory note and bill of exchange, kinds promissory note bill of exchange, cheque concept, types & Crossing of cheque, Distinguish between bill of exchange & cheque, Dishonour of cheque - concept & penalties. Miscellaneous provisions - parties to Negotiable instruments Holder, Holder in due course, Rights & Privileges of holder in due course, payment in due course, noting & protest.	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: SYBCOM SEMESTER: III (Subject :Management Account)

MONTH: June 2022 to Nov 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Understand concept of Working Capital

To evaluate various projects with techniques of capital budgeting

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Working Capital	Working Capital Requirement	15	Manan Publication	Chalkboard, Google Classroom
	Level ofActivity			
	Margin of Safety			
Capital Budgeting	Payback Period, Net Present Value, Profitability Index, Average Rate of Return	15	Manan Publication	Chalkboard, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Pallavi G. Naik DEPARTMENT: B.Economics CLASS: SYBCOM SEMESTER:SEM III (Subject : B.ECONOMICS)

MONTH: JUNE TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Micro Economics and macro economics understanding of business aspects.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module-1 Introduction to macro Economics Module II Basic concepts of Keynesian Economics Module- III Post Keynesian development of macro economics	Circular flow of income, measurement of National income, trade cycle, Say's law of Market		JIngan	Blackboard chalk and duster
	Theory of Effective demand, consumption function, investment function, Theory of Multiplier, Liquidity preference theory of interest		H.L.Ahuja	Google classroom
	IS-LM model, Phillips curve-unemployment- stagflation		Manan prakashan	PPT
	Integration of commodity, Phillips curve		Seth publication	
	Stagflation causes and consequences Money supply demand for money Money and prices Inflation I Inflation II			

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Module IV Money prices and inflation				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 8

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: _____Business Economics____ CLASS: ____SYBCOM___
SEMESTER: III__ (Subject : ________BUSINESS ECONOMICS____III_____)

MONTH: ______JUNE TO OCTOBER______ ACADEMIC YEAR: ____2022-23______

LEARNING OBJECTIVE/S: ___The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	INTRODUCTION • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importanceclosed and open economy models • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National	4 lectures per week	Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York Ahuja. H.L., Modern Economics — S.Chand	Chalk Duster Ppt, Google meet, Google Classroom, Discussion, quiz,Test,assignment

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TEACHING PLAN (UNIT PLAN)

	Income and Economic Welfare. • Trade Cycles: Features and Phases • Classical Macro economics : Say's law of Markets - Features, Implications and Criticism 2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest		Company Ltd. New Delhi. Blanchard Olivier (2000), Macro Economics, Englewood Elitt, Prentice Hall Bouman John, Principles of Macro Economics Dornbush , Rudiger, Fisher Stanley and Startz, Richards Macroeconomics, Nineth edition	

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment : Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics 4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money		2004 Tata-Mac Graw Hill, New Delhi. Dwivedi, D.N. (2001), Macro Economics: Theory and Policy, Tata-Mac Graw Hill, New Delhi. Friedman Hilton (1953) Essays in Positive Economics, University of Chicago Press, London. Gregory .N. Mankiw,	

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TEACHING PLAN (UNIT PLAN)

	• Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of InflationNature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting			Macroeconomics, Fifth Edition (2002) New York:Worth Publishers Jhingan, M.L., Principles of Economics — Vrinda Publications (P) Ltd. Shapiro, E (1996), Macro-Economic Analysis , Galgotia Publication, New Delhi. Vaish .M.C. (2010) Macro	

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TEACHING PLAN (UNIT PLAN)

			Economic Theory 14th edition, Vikas Publishing House(P)Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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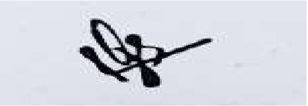

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **S.Y.BCOM** SEMESTER: I (Subject : **BUS. ECONOMICS-III**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

1. The student must be able to understand **Macroeconomics, Circular flow of aggregate income and expenditure The Measurement of National Product, Trade Cycles, Classical Macro economics, Say's law of Markets.**

2. The student must be able to understand **Basic concepts of Keynesian economics.**

3. The student must be able to understand post keynesian developments in macro economics.

4. The student must be able to understand Money , prices and inflation.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - III	**Unit I:Introduction**		*Mehta, P.L.: Managerial Economics*	Google classroom, Google Forms

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TEACHING PLAN (UNIT PLAN)

Money Supply:	**macroeconomics:** Meaning, Scope and Importance. • **Circular flow of aggregate income and expenditure** and its Importance- closed and open economy models • **The Measurement of National Product:** Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare. • **Trade Cycles:** Features and Phases • **Classical Macro economics : Say's law of Markets** - Features, Implications and Criticism	**10 lectures**	*– Analysis, Problem and Cases*	
	Unit -II **The Principle of Effective Demand:** Aggregate Demand and Aggregate Supply • **Consumption Function:** Properties, Assumptions and Implications	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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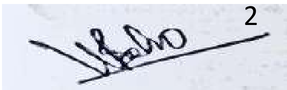

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TEACHING PLAN (UNIT PLAN)

	• **Investment function and Marginal Efficiency of capital** • **Investment Multiplier effect on Income and Output:** Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • **Relevance of Keynesian theory tools to the developing countries**			
	Unit -III **The IS -LM model** of integration of commodity and money markets • **Inflation and unemployment** : Philips curve • **Stagflation** : meaning, causes, and consequences • **Supply side economics :** Basic propositions and critical appraisal	**10 lectures**		
	Money Supply:	**10 lectures**		

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TEACHING PLAN (UNIT PLAN)

	Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • **Demand for Money :** Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money • **Money and prices** : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • **Inflation :** Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

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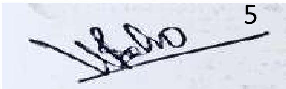

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: COMMERCE CLASS: SYB.COM-I
SEMESTER: III MONTH: June-October ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-III

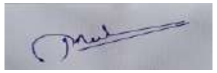
The learners will be able to:

1.To identify and demonstrate process for making short and long term plans.

2. To recognize the importance of seeking Information before making decisions.

3. To make student able to work in group, problem solving and organizational skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2: PLANNING & DECISION	▪ Planning- steps, Importance, Components, Coordination- Importance	4	Management - James Stoner Management: Global Prospective – Heinze Weihrich & Harold Koontz	1. Lecture and discussion. 2. Flow charts. 3. Online teaching learning tools (google meet, google form Google classroom, PPTs)
	▪ M.B.O – Process, Advantages, Management By Exception-Advantages; Management Information System – Concept, Components	3		
	▪ Decision Making – Techniques, Essentials of a Sound			



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TEACHING PLAN (UNIT PLAN)

MAKING	Decision Making, Impact of Technology on Decision Making	3	Principles of Management	

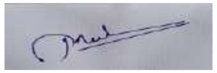
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10×1div = 10

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – L, M, N
SEMESTER: III MONTH: JUNE-OCTOBER ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-III

LEARNING OBJECTIVE/S:

1. To make the learners aware about conceptual knowledge and evolution of Management.
2. To familiarize the learners with the functions in Management.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1	Management- Concept, Nature, Functions, Managerial Skills & Competencies	03	Management Today Principles& Practice- Gene Burton, ManabThakur, Tata McGrawHill,PublishingCo. Ltd.Management – JamesA.F.Stoner, Prentice Hall, Inc .U.S.A	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Evolution of Management Thoughts Classical Approach: Scientific Management – F.W.Taylor’sContribution Classical Organisation Theory: HenriFayol’s Principles Neo Classical:	03		



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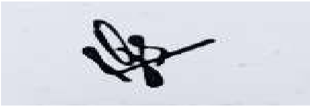

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TEACHING PLAN (UNIT PLAN)

Introduction To Management	Human Relations Approach – EltonMayo'sHawthorne experiments			
	Modern Management Approach-PeterDrucker's Dimensions of Management, Indian Management Thoughts: Origin & Significance of Indian Ethos to Management.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*3=33

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: SYBCOM (G & H) SEMESTER: III (Subject : COMMERCE III)

MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To gain the knowledge of management, evolution of management, to study different elements of management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 2- Planning & Decision Making	**Planning -** Steps, Importance, Components, Coordination - Importance **M.B.O -**Process, Advantages, Management By Exception- Advantages; Management Information System-Concept, Components **Decision Making -** Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.	10	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and talk method
UNIT 3 – ORGANISING	**Organising** – steps, organisational structures	12	Principles of management by Philip Kotler And Essential of	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 4 – Directing and Controlling	**Departmentation** – Meaning , base, span of management, factors influencing span of management, Tall / Flat organisation **Delegation of Authority** – Process, barriers, principles, decentralization- factors influencing, Centralisation v/s decentralisation		Management by Koontz	
	Motivation – Concept, Importance , Factors influencing Importance of Communication, Barriers to Effective communication **Leadership** : Concept, Functions, Styles , Qualities of good leader **Controlling** : Concept , steps , Essentials of good control system Techniques of controlling – PERT , CPM , Budgetary control, Management Audit	12	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and talk method
	Classical Organisational Theory – Henry Fayol Principles **Neo Classical** : Human Relations Approach – Elton Mayo's Hawthome Experiments	08	Principles of management by Philip Kotler And Essential of	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 1 – Introduction of Management	**Modern Management Approach** – Peter Drucker's Dimensions of Management , Indian management Thoughts – Origin and significance of Indian Ethos to Management.		Management by Koontz	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 42

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: SYBCOM (ALL DIVISIONS) SEMESTER: III (Subject : NSS FC III)

MONTH: JUNE TO SEPTEMBER   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about history of NSS, NSS Programme at National & State level, Meaning of NSS symbol, importance of NSS

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 2 – Disaster Preparedness & Disaster Management	**UNIT- I BASICS OF DISASTER PREPAREDNESS** Disaster – Meaning and types Disaster Preparedness its meaning and methods Helpline nos, First Aid Techniques Breathing Techniques, Rescue Methods CPR Various types of knots and stretchers **UNIT -Il DISASTER MANAGEMENT**	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 3 – Health Hygiene and Diseases	Concept, Disaster Cycle, Role of technology in disaster response, Disaster management cell at different levels and its functioning , Sendai Convention .		Service Scheme Manual,2009.	
	Meaning of Health and Hygiene : Indicator (Physical and Mental) Role of Health in development Public Health System in India Maintenance of Hygiene and sanitation **Diseases and Disorders – Preventive Campaigning** Diseases and disorders Communicable and Non -communicable diseases	13	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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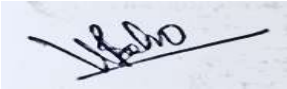

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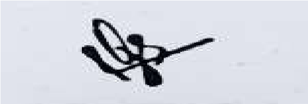

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TEACHING PLAN (UNIT PLAN)

	Preventive campaign in Malaria, TB, Dengue, Cancer, HIV/AIDS, diabetes, malnutrition			
Unit -4 ENVIRONMENT AND ENERGY CONSERVATION	Unit 1 : Environment and Environment Enrichment Programme Meaning, features, issues, Conservation of natural resources and sustainability in environment with respect to water conservation types. Bandhara, CCT, rain water harvesting Environmental Movements in India Unit 2 : Energy and energy conservation programme Energyv-concept and features Conventional and non conventional energy EnergyvConservation meaning and importance	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 1 – Value System and Gender Sentivity	**Value System :** Meaning, types, Human values and social responsibilities, Indian Value system ,eleven vows **Gender Sensitivity and Women Empowerment** Concept of gender, causes behind gender related problems, remedial measures, Women empowerment – meaning , various schemes in India	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 47

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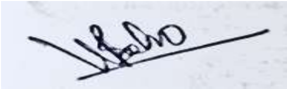

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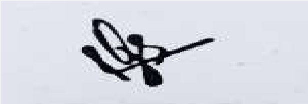

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TEACHING PLAN (UNIT PLAN)

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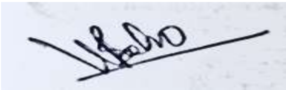

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TEACHING PLAN (UNIT PLAN)

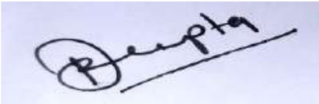
NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: S.Y.BCom SEMESTER: III Subject: MANAGEMENT ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2 & 3	**Introduction to Management Accounting**	04	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Ratio Analysis • Balance Sheet Ratios • Revenue Statement Ratios • Composite Ratios	11	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30



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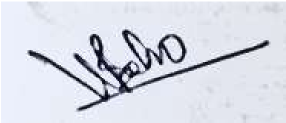

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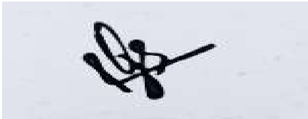

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: _III_ (Subject: Business Economics III

MONTH: June-October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand basic concepts of macroeconomics

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics III	2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism an Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest	2 lectures per week	MACRO ECONOMIC THEORY - M.L.JHINGAN PRINCIPLES OF MACRO ECONOMICS - MANKIW	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment: Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics	2 lectures per week		
	4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.Mala Khanchandani DEPARTMENT: : Commerce CLASS: S.Y.B.Com SEMESTER: III

Subject : Foundation Course III

MONTH: June to September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- To prevent Human Rights violations and to safeguard the Fundamental rights of every citizen of India.
- To understand the competencies related to communicating with those from other cultures.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FCIII Unit 1 Human Rights Violations And	D **Children**- Constitutional and legal rights, forms of violations, Redressal mechanism. E **People with disabilities**, Minorities, and the elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	06	Michael Vaz Aurara vaz: foundation course.	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples

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TEACHING PLAN (UNIT PLAN)

Redressal			Newspapers	❖ Story telling Offline Projects assigned
Unit 2 Dealing with Environmental Concerns	**A Concept of Disaster & Effects on Human Life** – Physical, Psychological Economic & Social Effects **B Case study of Environmental Disaster** **C Dealing with Disaster**:-Factors to be considered in prevention Mitigation & Disaster Preparedness. **D Human Rights Issues in addressing Disaster**: - Issues related to compensation, equitable and fair distribution of relief & humanitarian approach to resettlement & rehabilitation.	10	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling Offline Projects assigned
Unit 3Science & Technology-1	**A Science & Technology:-**The Ancient Cultures ,The Classical Era, the middle ages,The Renaissance, the age of reason & enlightenment. B **Nature of Science:-**principal & Characteristics science as Empirical practical ,theoretical, validated knowledge C **Science & Superstition** – Roll of Science in Exploding myth,	08	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling

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TEACHING PLAN (UNIT PLAN)

	blind belief & prejudice, science & scientific temper, science as fundamental duty of Indian Citizen			Offline Projects assigned
Unit 4 Soft Skills for Effective interpersonal Communicatio n	Part A 1. Effective Listening : Importance of Listening, Features of Listening. 2. Guidelines to develop effective listening skills. 3. Verbal Communication: Oral Communication, Advantages of oral communication,Disadvantages of Oral Communication 4.Written Communication :Advantages & Disadvantages of Written Communication 5. Non Verbal Communication:Body Language, Para language,Silence,Space Surrounding & Time, Advantages & Disadvantages of Non Verbal Communication 6.Public Speaking & Presentation Skills 7. Barriers to Effective Communication 8/ Tips for effective Communication Part B Formal & Informal Communication – Writing Formal	12	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling Offline Projects assigned

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TEACHING PLAN (UNIT PLAN)

	applications, preparing group discussions, interviews & presentations Part C Leadership skills & self improvement, Style of leadership & team building			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 36

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tejaswini Naik DEPARTMENT: Accountancy CLASS: Sybcom c and d SEMESTER: 3 (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: _2022-23_________

LEARNING OBJECTIVE/S: learner will understand how to prepare final accounting while admitting partner, how to calculate distribution of cash at the time of dissolution of parnership firm.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Financial accounting				
	1.partnership final account admission and final account. Solved 6 questions 2. Piecemeal distribution of cash- proportionate /excess capital method. Solved 6 questions	15 15	TAXMANN	Blackboard,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___30_

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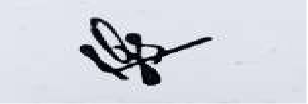

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: _____Business Economics____ CLASS: ____SYBCOM___
SEMESTER: III__ (Subject : ________BUSINESS ECONOMICS____III_____)

MONTH: ______JUNE TO OCTOBER______ ACADEMIC YEAR: ____2022-23______

LEARNING OBJECTIVE/S: ___The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	INTRODUCTION • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importanceclosed and open economy models • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National	4 lectures per week	Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York Ahuja. H.L., Modern Economics — S.Chand	Chalk Duster Ppt, Google meet, Google Classroom, Discussion, quiz,Test,assignment

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	Income and Economic Welfare. • Trade Cycles: Features and Phases • Classical Macro economics : Say's law of Markets - Features, Implications and Criticism 2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest		Company Ltd. New Delhi. Blanchard Olivier (2000), Macro Economics, Englewood Elitt, Prentice Hall Bouman John, Principles of Macro Economics Dornbush , Rudiger, Fisher Stanley and Startz, Richards Macroeconomics, Nineth edition	

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment : Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics 4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money		2004 Tata-Mac Graw Hill, New Delhi. Dwivedi, D.N. (2001), Macro Economics: Theory and Policy, Tata-Mac Graw Hill, New Delhi. Friedman Hilton (1953) Essays in Positive Economics, University of Chicago Press, London. Gregory .N. Mankiw,	

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TEACHING PLAN (UNIT PLAN)

	• Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of InflationNature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting		Macroeconomics, Fifth Edition (2002) New York:Worth Publishers Jhingan, M.L., Principles of Economics — Vrinda Publications (P) Ltd. Shapiro, E (1996), Macro-Economic Analysis , Galgotia Publication, New Delhi. Vaish .M.C. (2010) Macro	

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			Economic Theory 14th edition, Vikas Publishing House(P)Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __SYBCOM G&H SEMESTER: III_ (Subject : COMMERCE III)

MONTH: June to October ____ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To gain the knowledge of management, evolution of management, to study different elements of management

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 – Introduction to Mangement	**Classical Organisational Theory** – Henry Fayol Principles **Neo Classical** : Human Relations Approach – Elton Mayo's Hawthome Experiments **Modern Management Approach** – Peter Drucker's Dimensions of Management , Indian management Thoughts – Origin and significance of Indian Ethos to Management.	8	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___8

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 2-Planning & Decision Making	**Planning** - Steps, Importance, Components, Coordination - Importance **M.B.O** -Process, Advantages, Management By Exception- Advantages; Manage[1]ment Information System-Concept, Components **Decision Making** - Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.	**8**	Principles of management by Philip Kotler	Chalk and board method

Total number of lectures allocated to the unit -8

APER, UNIT, TITLE	SUBTOPIC	LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED

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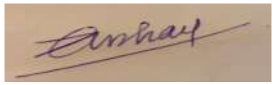

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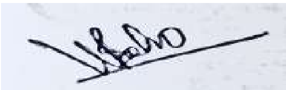

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TEACHING PLAN (UNIT PLAN)

UNIT 3 – ORGANISING	**Organising** – steps, organisational strucutures **Departmentation** – Meaning , base, span of management, factors influencing span of management, Tall / Flat organisation **Delegation of Authority** – Process, barriers, principles, decentralization- factors influencing, Centralisation v/s decentralisation	10	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

Total number of lectures allocated to the unit -10

APER, UNIT, TITLE	SUBTOPIC	LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4- Directing and Controlling	**Motivation –** Concept, Importance , Factors influencing Importance of Communication, Barriers to Effective communication **Leadership** : Concept, Functions, Styles , Qualities of good leader **Controlling** : Concept , steps , Essentials of good control system Techniques of controlling – PERT , CPM , Budgetary control, Management Audit	8	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

Total number of lectures allocated to the unit -8

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: SYBCOM- K,L,M,N,O Subject- Advertising

SEMESTER: _III_______ MONTH: July- November_________ ACADEMIC YEAR: ___2022-23__________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand advertisement related terminologies, special purpose advertising and the importance of brand.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2: Advertising Agency	Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection citeria 2 Manan Prakashan Online teaching- PPT Agency and Client: Maintaining agency -client relationship, Reasons and ways of avoiding client turnover, Creative Pitch, Agency compensation 3 Manan Prakashan Online teaching- PPT Careers in advertising: Skills required for a career in advertising, Various career options, Freelancing career options	8	Manan Prakashan	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___8_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: SYBCOM- C, D,J,K,L,M,N,O Subject- Commerce

SEMESTER: _III_______ MONTH: July- November_________ ACADEMIC YEAR: ___2022-23__________________

LEARNING OBJECTIVE/S:
The learners will be able to : Know the basic concepts of Management, Planning, Decision making, Organizing and Directing and Controlling.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Chp 2: Planning and Decision Making	Planning: Steps, Importance, Components, Co-ordination- Importance	3	Manan Prakashan	Chalk and Duster
	MBO: Process, Advantages, MBE, MIS	3		
	Decision Making: Techniques, Essentials of a sound decision making, Impact of Technology on Decision making	3		

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TEACHING PLAN (UNIT PLAN)

Chp 3: Organising	Organising: Steps, Organisation structure Departmentation: Meaning, Bases, Span of Management, Factors influencing Span of Management, Tall and Flat organisation	3	Manan Prakashan	Chalk and Duster
	Delegation of Authority: Process, Barriers to Delegation, Principles of effective delegation, Decentralisation, Centralisation and Decentralisation	3		
Chp 4: Directing and Controlling	Motivation: Concept, Importance, Influencing Factor, Importance of communication, Barriers to effective communication Leadership: Concept, Functions, Styles, Qualities of good leader Controlling: Concept, Steps, Essentials of good control system, Techniques of controlling- PERT, CPM, Budgetary Control, Management Audit.	9	Manan Prakashan	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___24_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. Know & understand what is Management accounting, Users of Management Accounting, Importance of Management Accounting
2. Know & understand Analysis tools of management accounting i.e. Vertical Statement, Trend Analysis, Comparative Statement, Common Size Statement
3. Know & understand what is Ratio Analysis and different types of accounting ratios

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Management Accounting Unit 1	Introduction to Management Accounting	4	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 2	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 3	Ratio Analysis • Balance Sheet Ratios • Revenue Statement Ratios • Composite Ratios	11	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Kavita Vilas Purandare DEPARTMENT: Commerce CLASS: SYBCOM SEMESTER: III
(Subject : Business Law) MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To learn Indian Contract Act, Special contract, Sale of goods act and negotiable instrument act.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian Contract Act 1872 (Part 1 and 2)	• Indian contract Act, 1872 • Definitions, agreement, kinds of agreement, contract, kinds of contract, valid, void, voidable, contingent and Quasi contract • Offer or proposal – definition, essentials of valid proposal or offer, distinguish between offer and invitation to offer. • Capacity to contract, consent and free consent. • Consideration – concept, importance of consideration, legal rules of consideration.	24		Chalk and Board
Special Contracts	• Law of Indemnity and guarantee (ss.124-125, ss-126-129, 132-147 • Law of Bailment and pledge	12		Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	• Law of Agency			
Sale of goods act - 1930	• Introduction, Definition, Formalities of contract of sale • Distinguished between sale and agreement to sell, sale and hire purchase agreement • Transfer of property as between the seller and the buyer, rights of an unpaid seller. • Property – concept, rule of transfer of property. • Unpaid seller, rights of an unpaid seller, remedies of breach contract.	12		Chalk and Board
Negotiable instruments act – Amended act 2015	• Meaning, definition, characteristics of negotiable instrument, evidence, presumptions, classifications • Promissory note and bill of exchange, • Definition of acceptor, acceptance, drawer, Drawee • Miscellaneous provisions – parties to negotiable instruments holder, rights and privileges of holder in due course.	12		Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS:SYBCOM– E,FSEMESTER: III

MONTH: June to October 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To let students understand what is Income Tax and how it is reflected in our practical life.
The learners will be able to: Understand the concept of Income Tax and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Management Accounting Unit 1	Introduction to Management Accounting	4	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 2	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 3	Ratio Analysis - Balance Sheet Ratios - Revenue Statement Ratios - Composite Ratios	11	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30 per Division

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TEACHING PLAN (UNIT PLAN)

DEPARTMENT: COMMERCE- ACCOUNTANCY CLASS: TYBCOM SEMESTER: V (Subject: FINANCIAL ACCOUNTING) MONTH: JUNE TO OCT
ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.

THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Internal Reconstruction	Meaning and Need of Internal Reconstruction, Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Accounting procedures, journal entries on internal reconstruction. Practical Illustrations	15	.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT
2. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash	15	S.N. MAHESHWARY, KHAN & JAIN,	Chalk & Duster Google classroom, PPT

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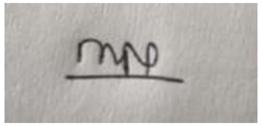
TEACHING PLAN (UNIT PLAN)

	flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.		Timothy R. Mayes	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30



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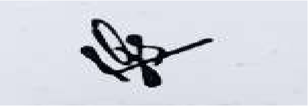

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Accountancy CLASS: S Y B Com [A&B]

SEMESTER: IV MONTH: December ACADEMIC YEAR: 2022-23

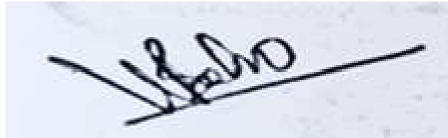
LEARNING OBJECTIVE/S:
The learners will be able to:
Learn about the working format of the company regards to raising of capital funds by way of issuing shares, debentures. Also, the legal procedure to raise these funds. It also helps to give practical knowledge of accounts. Additionally, the learner will be able to understand the method for the redemption of preference share and calculation of settling the proceeds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy and Financial Management IV	UNIT I **Introduction to Company Accounts** Introduction of basic terms: Types of companies, nature and formation of companies, Shares, Debentures, Share Capital, Reserves and surplus, types of assets and liabilities, dividend, format of Balance Sheet (Only theory) Issue of shares: Different modes IPO, Private Placements, Preferential, Rights, ESO, SWEAT and ESCROW account, Issue of shares at par, premium and discount, Under subscription and Over subscription of shares, forfeiture and reissue of forfeited shares, issue of shares for consideration other than cash. (Only theory) Issue of Debentures: types of Debentures, Issue of debentures at par, premium and discount, Issue of Debentures with consideration of Redemption, Issue of debentures for cash receivable in instalments or at a time Issue of debentures for consideration other than cash. (Only theory)	15	Introduction to Accountancy T.S. Grewal S. Chand and Co. (P) Ltd., New Delhi Advanced Accounts Shukla and Grewal S. Chand and Co. (P) Ltd., New Delhi	GOOGLE CLASSROOM Group Discussion, Chalk & talk, Black-Board Method; Group Discussion

	UNIT II **Redemption of Preference Shares** Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules. Methods of Redemption of fully paid-up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalization of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet) Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilized for premium payable on redemption of preference shares.	15		
	UNIT III Redemption of Debentures Provisions of companies Act , creation and investment of Debenture redemption reserve. Methods of redemption by payment in lumpsum and payment in instalments, conversion. Practical problems.	15		
	UNIT IV Ascertainment and Treatment of Profit Prior to Incorporation. Introduction Principles of ascertainment	15		

	Preparation of separate combined, columnar profit &loss A/c including different basis of allocation of expenses and Income.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AARADHANA R SINGH DEPARTMENT: COMMERCE CLASS: SYBCOM (M and N) SEMESTER: IV (Subject : ADVERTISING)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to:

- Understand the concept of advertising in detail.
- Get knowledge of various advertising strategies carried out by the marketers.
- Interpret global trend in advertising and the future opportunities.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1- Media in Advertising	**Traditional Media:** Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media **New Age Media:** Digital Media Forms, Significance and Limitations **Media Research:** Concept, Important, Tool for regulation- ABC and Doordarshan Code.	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

UNIT – 2 Planning Advertising Campaign	**Advertising Campaign** – Concept , Planning , Steps , Objectives , DAGMAR model **Advertising Budget** – Facctors determining advt budget, Methods, Media Objectives **Media Planning** - Concept , Process , Media Scheduling Strategies	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test
Unit-3 Fundamental of creativity in advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposition (USP) **Creativity through Endorsements:** Endorsers Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products.	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test
Unit -4 Execution and Evaluation of Advertising	**Preparing print ads** - essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard	10	Marketing management by - Phillip Kotler And Marketing management	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

	Evaluation - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard **Evaluation** - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.		Ramaswamy & Kumari Nama	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 46

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TEACHING PLAN (UNIT PLAN)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS: SYBCom SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: November December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Significant, contemporary rights of citizens	**A Rights of Consumers-** violation of consumer rights and important provisions of the consumer protection act 2016; other important laws to protect consumers; consumer courts and consumer movements	04	Foundation course IV by Michael Vaz and Aurora Vaz	Chalk & Board, Discussion.
	B Right to information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act 2005; some success stories	04		

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TEACHING PLAN (UNIT PLAN)

	C Protection of Citizens'/ Public Interest- Public Interest Litigation, need and procedure to file a PIL; some Landmark cases	02		
	D citizens charter, Public Service Guarantee Act	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS:SYB.Com SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: January ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

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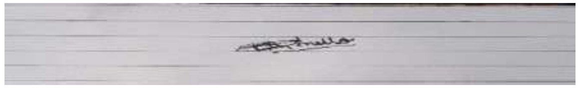
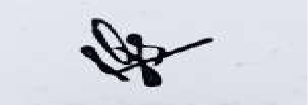
TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II Approaches to understanding ecology	**A understanding approaches to ecology**- anthropocentrism, biocentrism and ecocentrism, Eco feminism and deep ecology	04	Foundation course IV by Michael Vaz and Aurora Vaz	Chalk & Board, Discussion.
	B environmental principles 1- the sustainability principle, the polluter pays principle, the precautionary principle	04		
	C environmental principles 2- the equity principle, Human Rights principle, the participation principle	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11





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TEACHING PLAN (UNIT PLAN)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS:SYB.Com SEMESTER: IV Div:-C,D,E,F,G,H,I MONTH: February ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III	**Part A- some significant modern technologies, features and applications**		Foundation course IV by	Chalk & Board, Discussion.

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TEACHING PLAN (UNIT PLAN)

Science and Technology II	1. **Laser technology-** light amplification by stimulated emission of radiation, use of laser in Remote Sensing, GIS or GPS mapping, medical use	02	Michael Vaz and Aurora Vaz	
	2. **Satellite Technology-** various uses in satellite navigation systems, GPS and imprecise climate and weather analysis	02		
	3. **Information and Communication Technology-** convergence of various Technology like satellite, computer and digital in the information revolution of today's society	02		
	4. **Biotechnology and genetic engineering-** applied biology and uses in medicine, Pharmaceuticals and Agriculture, genetically modified plant, animal and human life	02		
	5. **Nanotechnology-** definition, the study, control and application of phenomena and materials at length scales below 100 nm, uses in medicine, military intelligence and consumer products	01		
	Part B- issues of control, access and misuse of Technology	02		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS:SYB.Com SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV	**Part A- Basic information on competitive examinations, the pattern, eligibility criteria and local centres**		Foundation course IV by	Chalk & Board, Discussion.

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TEACHING PLAN (UNIT PLAN)

Introduction to competitive exams	1. Examinations conducted for entry into professional courses- graduate record examination, graduate management admission test GMAT, common admission test and scholastic aptitude test	01	Michael Vaz and Aurora Vaz	
	2. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission, Staff Public Service Commission, Banking and Insurance sectors and the National and State Eligibility Test NET/SET for entry into teaching profession	02		
	Part B- Soft Skills required for Competitive Examinations			
	1. **Information on areas tested-** quantitative ability, data interpretation, verbal ability and logical reasoning, creativity and Lateral thinking	02		
	2. **Motivation-** concept, theories and types of motivation	02		
	3. **Goal setting-** types of goals, SMART goals, Stephen Covey's concept of human endowment	01		

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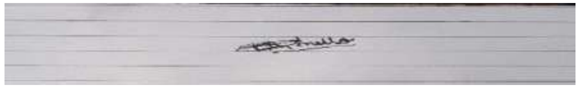
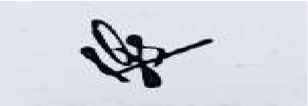
	4. **Time management-** effective strategies for time management	01		
	5. **Writing skills-** paragraph writing, report writing, filing an application under the RTI Act, consumer grievance letter	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11





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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: SYBCOM SEMESTER: 4 (Subject : Financial Accounting)
MONTH: November-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit -1 Introduction to Company Accounts	Types of Companies, nature and formation of companies,shares,,debentures,sharecapital,format of balance sheet. Issue of shares Issue of Debentures	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit -2 Redemption of Preference Shares	Provisions of companies Act for redemption of preference shares. Methods of redemption, proceeds of fresh issue, calculation of minimum issue. Practical problems	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit – 3 Redemption of Debentures	Provisions of companies Act , creation and investment of Debenture redemption reserve. Methods of redemption by payment in lumpsum and payment in instalments, conversion. Practical problems	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit- 4	Introduction Principles of ascertainment	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method

Ascertainment and Treatment of Profit Prior to Incorporation	Preparation of separate combined, columnar profit &loss A/c including different basis of allocation of expenses and Income.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Ramchandra Patil DEPARTMENT: Commerce CLASS: SYB.COM – K, L SEMESTER:

IV MONTH: December-January ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Production Management, Inventory Management

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Systems: Concept, Types -Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity. Inventory Management- Objectives, Inventory Control Techniques. Scientific Inventory Control System -Importance Production Management: Objectives, Scope Production Planning &Control :Steps, Importance	12	Essentials of Inventory Management-MaxMuller	Chalk & board
MODULE II QUALITYMANAGEME	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types –Internal Failure Cost, External FailureCost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	10	Production & Operation	Chalk & board

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NT	Quality Management Tools: TQM –Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen– Process Service Quality Management:Importance, SERVQUALModel,Measures to improve service quality.		Management(Text & Cases)K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication.	
MODULE III INDIAN FINANCIAL SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation:Process, Role of Depositories : NSDL and CDSL SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators. Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.	12	Indian Financial System— BharathiPathiak, Pearson publication	Chalk & board
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments. Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	12	Mutual Funds in India: Emerging Issues- NaliniPravaTripathy, Excel Books New Delhi.	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 46

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR DEPARTMENT: COMMERCE CLASS: SYBCOM DIV - N SEMESTER: IV

SUBJECT : BUSINESS LAW MONTH: NOVEMBER - MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to Know Various kinds of companies and features and procedure for incorporating a company.
The learners will be able to Know Partnership Meaning, Procedure for Registration of Partnership, Types of Partner, Rights and Duties of Partner.

The learners will be able to Know Rights of Consumers, forms of its Violation and Consumer Protection Act.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module. No. 1 Indian companies Act, 2013 Part -1	Chapter I – Company, Features, Role of promoters, Duties and Liabilities of the promoter, effects of pre incorporation contracts, consequences of non- registration, and lifting of corporate veil. Chapter II – Classification of companies, Distinction between Private company and public company, Advantages and disadvantages of Private company and public company, Common Procedure for Incorporation of company.	08	Company Law Avtar singh Indian Partnership Act, 1932- Pollock & Mulla Agrawal V.K. Consumer	1) Lecture and Discussion 2) Case Study 3) Black Board, Chalk and Duster

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	Chapter III – Memorandum of Association and Article of Association – Concept, Clauses of MOA, AOA – Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor management. Chapter IV - Prospectus : concept, Kinds, Contents, Private Placement		protection Law and practice Vipul Prakashan	
Module. No. 2 Indian companies Act, 2013 Part – 2	Chapter - I Member of a Company: Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right and liabilities of members. Chapter – II Director: Qualification and disqualification, Classification, Director Identification number, Legal position of director. Chapter – III Meetings : Types, Legal provisions of statutory meeting, Annual General meeting, Extra-Ordinary meeting.	08 08		
Module. No. 3				

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Indian Partnership Act, 1932	Chapter I - Partnership: Concept, Essentials, True test of Partnership, Partnership Deed, Types of Partnership, Rights and duties of Partners, Distinguish between Partnership and Hindu Undivided Family. Chapter II - Dissolution: Concept, Modes of Dissolution, Consequences of Dissolution Chapter III - Limited Liability Partnership 2008: Concept, Characteristics, Advantages and Disadvantages, Procedure for Incorporation. Chapter IV - Extent of L.L.P.: Conversation of LLP, Mutual Rights and Duties of Partners, winding up of LLP, Distinction between LLP and Partnership.	08		
Module No. 4 Consumer Protection Act, 1986 and Competition Act 2002.	Chapter - I Concept, Objects, Reasons for enacting the Consumer Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Defect, Deficiency, Unfair Trade Practices, Goods and Services. Chapter - II - Consumer Protection Councils and Redressal Agencies: District, State and National.			

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	Chapter - III - Competition Act 2002: Concept, Salient Features, Objectives and Advantages. Chapter IV Abuse of Dominant Position, Competition Commission of India, Anti-Competition Agreements.			
Module No. 5 Intellectual Property Rights	Chapter I – Intellectual Property right: Concept, Nature, Introduction and background of IPR in India. Chapter II – IPR relating to patents, Concepts of Invention and discovery, comparison, Concepts of patents, General principals applicable to working of patented inventions, Terms of patents, Infringement of patent right and remedies. Chapter III - IPR Relating to Copyrights: Concept of Copyright, Ownership of Copy right, Duration or term of copy right, Original work and fairs use, Rights of copyright holder, Infringement of copyrights and Remedies. Chapter IV - IPR Relating to Trademarks: Concept, Functions, Types, trademarks that cannot be registered, Registration of	08		

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	trademarks and Rights of the Proprietor of Trade Marks. Procedure for registration of Trade Marks., infringement of Trademarks and Remedies.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Tejaswini Yogesh Naik_______________________ DEPARTMENT: __Accountancy_______ CLASS: ___SYBCOM____
SEMESTER: IV (Subject : AUDITING)

MONTH: JANUARY TO APRIL ACADEMIC YEAR 2022-23 __________

LEARNING OBJECTIVE/S: Basic of Auditing , difference between auditing and accounting, types of errors and frauds, principles of audit, types of audit , audit planning, audit programme, audit working papers, test check, audit sampling, internal control, internal audit, vouching and verification

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	Intriduction to auditing	10 10	Manan publication	Blackboard

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TEACHING PLAN (UNIT PLAN)

		10 15		
	1. Audit planning procedures and documentation 2. Audit techniques and internal audit introduction Audit techniques: Vouching and verification			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45

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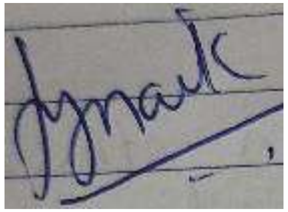

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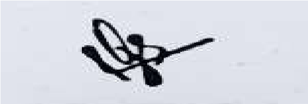

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: SYBCOM SEMESTER: IV (Subject :Auditing)

MONTH: Dec 2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the objective, Limitation of audit & Difference between Accounting and Auditing, Investigation and Auditing.

To Understand Errors & Frauds, Types of Error, Types of frauds & Auditors Duties and Responsibilities in case of fraud.

To analyse the Principles of Audit & Types of Audit

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
1. Introduction to Auditing	A. Basics Financial Statements, Users of Information, Definition of Auditing,Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds - Definitions, Reasons and Circumstances, Types of Error,Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit - Meaning, Advantages,Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

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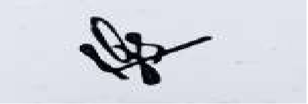

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TEACHING PLAN (UNIT PLAN)

	Annual Audit, Statutory Audit			
Vouching and Verification	Vouching and verification of transactions and assets liabilities	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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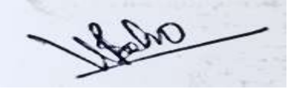

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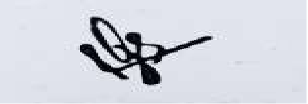

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: IV (Subject: Business Economics IV

MONTH: November – March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand basic concepts of Public Finance

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics III	Module 1:The role of state in the economy. Meaning and Scope of Public Finance, Major Fiscal Functions Principle of Maximum Social Advantage Market Failure and Role of Government	3 lectures per week	MACRO ECONOMIC THEORY - M.L.JHINGAN Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions
	Module 2: PUBLIC REVENUE: Sources, Canons, Types, Impact and Incidence of Taxation, Economic Effects, Nature of Taxation	3 lectures per week	Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions

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	Module 3: PUBLIC EXPENDITURE AND PUBLIC DEBTS: Classification, Economic effects, significance, Theories of public expenditure Public debt, Types of Public Debt, Effects of Public Debt, FRBM act		Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: FISCAL MANAGEMENT AND FINANCIAL ADMINISTRATION: Fiscal Policy, Contra Cyclical and Fiscal Policy and Discretionary Fiscal Policy- Principle of Sound Finance and Functional Finance, Budget-Meaning, objectives and Types, Intergovernmental Fiscal Relations-Fiscal Federalism and Fiscal Decentralization.			Chalk and Board Google Classroom Classroom Discussions

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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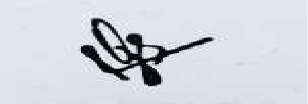

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. BRISTI BISWAS **DEPARTMENT**: Business Economics **CLASS**: SYBCOM **SEMESTER**: IV (**Subject**: BUSINESS ECONOMICS)

MONTH: NOVEMBER-MARCH **ACADEMIC YEAR**: 2022-2023

LEARNING OBJECTIVE/S: To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS IV Module I to Module IV	Module 1:THE ROLE OF GOVERNMENT IN AN ECONOMY: Meaning and Scope of Public Finance, Major Fiscal Functions, Principle of MSA-Dalton & Musgrave, Principles in Practice and its Limitations	15	Advanced Macro Economics - H.L. AHUJA.	Chalk and Duster
	Module 2: PUBLIC REVENUE: Sources, Canons, Types, Impact and Incidence of Taxation, Economic Effects, Nature of Taxation	15	Macro Economics - H.L.Ahuja	Chalk and Duster
	Module 3: PUBLIC EXPENDITURE AND PUBLIC DEBTS: Classification, Economic effects, significance, Contribution, Public debt burden of debt finance.	15	Advanced Economic Theory (M.L. Jhingan)	Chalk and Duster

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	Module 4:FISCAL MANAGEMENT AND FINANCIAL ADMINISTRATION: Fiscal Policy, Contra Cyclical and Fiscal Policy and Discretionary Fiscal Policy-Principle of Sound Finance and Functional Finance, Budget-Meaning, objectives and Types, Intergovernmental Fiscal Relations-Fiscal Federalism and Fiscal Decentralization.	15	Advanced Economic Theory (M.L. Jhingan)	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pallavi Naik DEPARTMENT: B.Economics CLASS: SYBCOM SEMESTER: IV (Subject : B.ECONOMICS)

MONTH: December to march ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The fundamental concepts and issues of public finance

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
MODULE 1: The role of government in an economy Module 2 : Public revenue Module 3: Public expenditure and Public dept Module 4; Fiscal Management	The role of government in an economy – Public finance , Efficiency – Market – Government , The principle of maximum social advantage		Manan prakashan	Chalk duster and blackboard
	Public revenue, Shifting of tax burden , Economic effects of Taxation	15	Seth publication	
	Public expenditure : Canons , Classification and Effects, Growth of Public expenditure, Public expenditure and social welfare , Public Debt.			
	Fiscal policy , Types of fiscal policy , Types of Budget and concepts of Deficit , Intergovernmental Fiscal Relations.	15		
		15		

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TEACHING PLAN (UNIT PLAN)

and financial administration				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **IV** (Subject : **BUS. ECONOMICS-IV**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **THE ROLE OF GOVERNMENT IN AN ECONOMY**

The student must be able to understand **PUBLIC REVENUE**

The student must be able to understand **PUBLIC EXPENDITURE AND PUBLIC DEBT**

The student must be able to understand Fiscal policy and Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - IV	Unit I		*Mehta, P.L.: Managerial Economics*	Google classroom, Google Forms CHALK DUSTER

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TEACHING PLAN (UNIT PLAN)

	Meaning and Scope of Public finance. • ***Major fiscal functions*** : allocation function, distribution function & stabilization function • ***Principle of Maximum Social Advantage:*** Dalton and Musgrave Views - the Principle in Practice, Limitations. • ***Relation between Efficiency, Markets and Governments*** • ***The concept of Public Goods and the role of Government***	**10 lectures**	*– Analysis, Problem and Cases*	METHOD
	Unit-II ***Sources of Public Revenue :*** tax and non-tax revenues • Objectives of taxation - Canons of taxation - Types of taxes : direct and	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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TEACHING PLAN (UNIT PLAN)

	indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation • ***Shifting of tax burden:*** Impact and incidence of taxation - Processes- factors influencing incidence of taxation • ***Economic Effects of taxation:*** on Income and Wealth, Consumption, Savings, Investments and Production. • ***Redistributive and Anti – Inflationary nature of taxation*** and their implications			
	Unit III: ***Public Expenditure:*** Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis	**10 lectures**		

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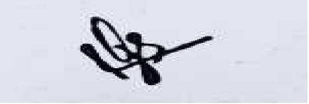

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	and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth - Significance of Public Expenditure: Low Income Support and Social Insurance Programmes. • ***Public Debt*** : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency			
	Unit IV: ***fiscal Policy:*** Meaning, Objectives, constituents and Limitations. • ***Contra cyclical Fiscal Policy and Discretionary Fiscal Policy*** : Principles of Sound and Functional Finance	**10 lectures**	Sumitra, Managerial Economics cases and concepts	

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TEACHING PLAN (UNIT PLAN)

	• ***Budget-*** Meaning objectives and types - Structure of Union budget - Deficit concepts • ***Intergovernmental Fiscal Relations :*** fiscal federalism and fiscal decentralization – centralstate financial relations			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Commerce CLASS: S.Y.B.Com SEMESTER: IV (Subject : Foundation Course IV)

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

_To develop and gain logical reasoning, critical thinking abilities, creating and testing hypotheses and thus opening doors to research.

_To measure verbal reasoning, quantitative reasoning, and analytical writing.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FC Unit II Approaches to understanding ecology	A Understanding approaches to ecology-Anthropocentrism, B Biocentrism and Ecocentrism, Ecofeminism and Deep ecology.	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	C Environmental Principles-i) The sustainability principle, ThePolluter Pays Principle , The Precautionary Principle. Environmental Principles-ii) The Equity Principle;		Newspapers	
Unit IV Introduction to competitive exams	Part A: Basic information on competitive examinations- The pattern, eligibility criteria and local centres. i) Examinations conducted for entry into professional courses- GRE, GMAT, CAT,SAT. ii) Examination conducted for entry into jobs by UPSC,SSC, Banking and Insurance sector, NET-SET. Part B: Soft skills for competitive examinations	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course Newspapers	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	i) Information on area s tested: Quantitative ability, Data interpretation , Verbal ability and logical reasoning, creativity and lateral thinking. ii) Motivation: Concept, theories and types of motivations. iii) Goal setting: Types of goals, SMART Goals, Stephen Conveys concept of human endowment. iv) Time management: Effective strategies . Writing Skills: Paragraph writing, Report writing, Filing an application under the RTI Act, Grievance letter.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Praktana Kore DEPARTMENT: _________ CLASS: _SYB.COM –G,H ______ SEMESTER: __IV IV (Subject : _________________)

MONTH: _______December-February _____ ACADEMIC YEAR: _____ 2022-2023 _____

LEARNING OBJECTIVE/S: _To acquaint the learners with the basic concepts of Production Management, Inventory Management

____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED	
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Management: Objectives, Scope Production Planning & Control : Steps, Importance	03	Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management- MaxMuller	1.Lecture and discussion. 2. Flow charts.	1.Lectu 2. Flov
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.	04			
	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04			

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TEACHING PLAN (UNIT PLAN)

	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.			
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process			
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.			

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: S.Y.B.Com (E,F) SEMESTER: IV

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Commerce

LEARNING OBJECTIVES:
To acquaint the learners with the basic concepts of Production Management, Inventory Management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED	
MODULE 1 PRODUCTIO N & INVENTORY	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance	03	Production & Operations Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management- MaxMuller	1.Lecture and discussion. 2. Flow charts.	1.Lectu 2. Flov
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.				

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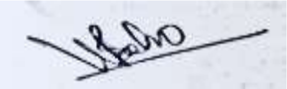

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TEACHING PLAN (UNIT PLAN)

MANAGEMENT	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04			
	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	04			
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process				
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.				

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Production Management, Inventory Management

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance	03	Production & Operation Management (Text & Cases)-K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management-MaxMuller	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.	04		
	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Quality Management.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 2 QUALITY MANAGEMENT	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	04	Production and Operations Management – ProfL.C.Jhamb, Event Publishing House. .Production Planning & Control- ProfL.C.Jhamb, Event Publishing House	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process	03		

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TEACHING PLAN (UNIT PLAN)

	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.	03	Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10*2=20

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To provide basic knowledge about Indian Financial Systems.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

MODULE 3 INDIAN FINANCIAL SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation: Process, Role of Depositories : NSDL and CDSL	04	. Indian Financial System—BharathiPathiak, Pearson Publication Financial Institutions and Markets : StructureGrowth & Innovations – L.M.Bhole , Jitendra Mahakad, The IndianFinancial System and Financial Market Operator-VasantDesai, Himalaya Publishing Indian Financial System – M.Y.Khan, Tata McGraw – Hill	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators.	04		
	Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

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TEACHING PLAN (UNIT PLAN)

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To update the learners with the recent trends in Finance.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan.	04	Mutual Funds in India: Emerging Issues- NaliniPravaTripathy, Excel Books New Delhi. A Trades Guide to Indian Commodities Market-Vijay L. Bhambwani, Network 18 Publication Ltd.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments.	04		
	Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: SYBCOM (DIV G&H) SEMESTER: III (Subject : Advertising)

MONTH: NOVEMBER TO FEBRUARY   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Media in Advertising	**Traditional Media:** Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media. **New Age Media:** Digital Media Forms, Significance and Limitations **Media Research:** Concept, Important, Tool for regulation- ABC and Doordarshan Code.	11	Marketing Management by Philip Kotler	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT-2 Planning Advt Campaign	**Advertising Campaign** – Concept , Planning , Steps , Objectives , DAGMAR model **Advertising Budget** – Facctors determining advt budget, Methods, Media Objectives **Media Planning** - Concept , Process , Media Scheduling Strategies	11		Chalk and talk method
UNIT 3 – Fundamentals of Creativity in Advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. • **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposi	11		Chalk and talk method

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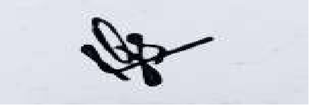

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TEACHING PLAN (UNIT PLAN)

UNIT 4 - Execution and Evaluation of Advertising	**Preparing print ads** - essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard **Evaluation** - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.	12	Marketing Management by Philip Kotler	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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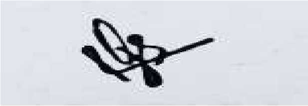

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: SYBCOM (DIV C & D) SEMESTER: III (Subject : Commerce IV)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To gain the knowledge of production, planning and inventory management .

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 – Production and Inventory Management	**Production Management** - Objectives , Scope. PPC :steps and importance **Production System** - Concept , Types **Productivity** - Concept , Factors and Measures. **Inventory Management :** Objectives , Inventory Control Techniques. Scientific Inventory Control System- Importance.	11	Production and Operation Management – S N Chary	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT-2 Quality Management	**Introduction to Quality** – dimensions **Cost of Quality** – Types **Quality Management Tools** – TQM , SIX SIGMA , ISO 9000, KAIZEN PROCESS. Service Quality Management – Importance , SERVQUAL model , Measures to improve service quality	10	Total Quality Management – Stephen George and Arnold Weimerskirch	Chalk and talk method
UNIT 3 – Indian Financial System	**Indian Financial Market – Structure ,** IPO process ,Role of Depositories : NSDL and CDSL **SEBI** : Functions, Measures of SEBI , Stock Exchange – Functions and speculators **Credit Ratings –** Advantages , CRISIL , CARE , ICRA	12	Indian Financial System – Bharati Pathak	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT 4 - Recent Trends in Finance	**Mutual Funds** – Advantages , Limitation, Types , Factors responsible. **Commodity Market -** Types **Derivative Market** – Types , participants , types of derivative instruments. **Start Up Ventures** – Concept , Sources **Micro Finance** – Importance , Role of SHG	12	Indian Financial System – Bharati Pathak. Banking and Micro Finance in India – Minimol M C	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: SYBCOM (ALL DIVISIONS) SEMESTER: III (Subject : NSS FC IV)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Entrepreneurship Development and Schemes	• Entrepreneurship development – meaning • Attributes of entrepreneur • Women entrepreneurship • Government and self-employment schemes • Skill India, Start up India, Digital India, Make in India, • NITI Aayog	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

			Service Scheme Manual,2009.	
UNIT-2 Cottage Industries in India	• Cottage industries – meaning • Pre independence & Post independence scenario • Marketing of Cottage Products and outlets • Government policies to encourage cottage industries • Hurdles in the development of cottage industries	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
UNIT 3 - Rural Resource Mobilization	• **Resources Mobilization – Meaning** • Case Study of Eco – Village, Eco – Tourism, Agro – Tourism • **UNIT - II Concept of " Ideal Village "** • Gandhian Concept of " Ideal Village " • Case Studies on Ideal Village – Ralegansiddhi, Hiware Bazar, MendhaLekha		1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

and Ideal Village		12	and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	
UNIT 4 - Voluntary Organisations and Non-Govt. Organisations in Maharashtra	• **UNIT - I** • Search • Anandwan • Muktangan • **UNIT – II** • Snehalay • Halo Medical Foundation (HMF) • Bharatiya Agro Industries Foundation (BAIF)	11	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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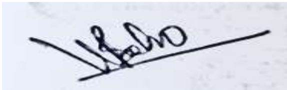
TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Commerce CLASS: S.Y.B.Com SEMESTER: IV (Subject : Foundation Course IV)

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

_To develop and gain logical reasoning, critical thinking abilities, creating and testing hypotheses and thus opening doors to research.

_To measure verbal reasoning, quantitative reasoning, and analytical writing.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FC Unit II Approaches to understanding ecology	A Understanding approaches to ecology-Anthropocentrism, B Biocentrism and Ecocentrism, Ecofeminism and Deep ecology.	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	C Environmental Principles-i) The sustainability principle, ThePolluter Pays Principle , The Precautionary Principle. Environmental Principles-ii) The Equity Principle;		Newspapers	
Unit IV Introduction to competitive exams	Part A: Basic information on competitive examinations- The pattern, eligibility criteria and local centres. i) Examinations conducted for entry into professional courses- GRE, GMAT, CAT,SAT. ii) Examination conducted for entry into jobs by UPSC,SSC, Banking and Insurance sector, NET-SET. Part B: Soft skills for competitive examinations	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course Newspapers	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	i) Information on area s tested: Quantitative ability, Data interpretation , Verbal ability and logical reasoning, creativity and lateral thinking. ii) Motivation: Concept, theories and types of motivations. iii) Goal setting: Types of goals, SMART Goals, Stephen Conveys concept of human endowment. iv) Time management: Effective strategies . Writing Skills: Paragraph writing, Report writing, Filing an application under the RTI Act, Grievance letter.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __SYBCOM I & J__ SEMESTER: IV__ (Subject : Advertising__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Media in Advertising	Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media New Age Media: Digital Media Forms, Significance and Limitations Media Research: Concept, Important, Tool for regulation- ABC and Doordarshan Code.	11	Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES		EACHING METHOD/ ICT TOOLS USED

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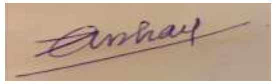
TEACHING PLAN (UNIT PLAN)

		ALLOTED	REFERENCE/ S	
UNIT 2 Planning Advertising Campaign	Advertising Campaign – Concept , Planning , Steps , Objectives , DAGMAR model Advertising Budget – Facctors determining advt budget, Methods, Media Objectives Media Planning - Concept , Process , Media Scheduling Strategies	**11**	Marketing Management by Philip Kotler	**Chalk and board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Fundamental s of Creativity in Advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposition (USP)	11	Marketing Management by Philip Kotler	Chalk and Board



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TEACHING PLAN (UNIT PLAN)

	Creativity through Endorsements: Endorsers Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4	Preparing print ads - essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. Creating broadcast ads : Execution styles, jingles and music importance, Concept of Storyboard Evaluation - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.	11	Marketing Management by Philip Kotler	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce_IV_ CLASS: __SYBCOM A&B_ SEMESTER: IV__ (Subject : Advertising__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To update the learners with the recent trends in Finance.

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
MODULE 1 PRODUCTI ON & INVENTOR Y MANAGEM ENT	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity. Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	11	Production & Operation Management (Text & Cases)- K.Ashwathappa &G.Sudeshana	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE	EACHING METHOD/ ICT TOOLS USED
Packaging, Product positioning, service Positioning	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	**11**	Production & Operation Management (Text & Cases)	**Chalk and Board**
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process			
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.			

Total number of lectures alloted - 11

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
MODULE 3 INDIAN FINANCIA L SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation: Process, Role of Depositories : NSDL and CDSL	11	Production & Operation Management (Text & Cases)	Chalk and board
	SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators.			
	Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.			

Total number of lectures alloted -11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S	REFERENC E/S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

		ALLOTED		
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments. Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	11	Production & Operation Management r	Chalk and board

Total number of lectures alloted - 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Auditing, what are the objective, Limitation of audit & Difference between Accounting and Auditing, Investigation and Auditing.
2. What is Errors & Frauds, Types of Error, Types of frauds & Auditors Duties and Responsibilities in case of fraud.
3. What are the Principles of Audit & Types of Audit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Introduction to Auditing	A. Basics Financial Statements, Users of Information, Definition of Auditing,Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds - Definitions, Reasons and Circumstances, Types of Error,Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit - Meaning, Advantages,Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit	10	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Audit Planning, Audit Program Audit Working Papers

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	TEACHING METHOD/ ICT TOOLS USED
2.Audit Planning, Procedures and Documentation	A.Audit Planning - Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach B.Audit Program - Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. C.Audit Working Papers - Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.	10	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Test Check, Audit Sampling, Internal Control & Internal Audit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
3.Auditing Techniques and Internal Audit Introduction	A.Test Check- Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. B.Audit Sampling - Audit Sampling, meaning, purpose, factors in determining sample size - Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample C.Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, InherentLimitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. D.Internal Audit: Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs InternalAudit	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– G,H,I** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. How to Vouch and Verify of Audit of Income, Audit of Expenditure, Audit of Assets & Audit of Liabilities

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
4.Auditing Techniques: Vouching & Verification	A. Audit of Income: Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received B. Audit of Expenditure Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense C. Audit of Assets Book Debts / Debtors, Stocks - Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Pater Know-How Plant and Machinery Land and Buildings Furniture and Fixture D. Audit of Liabilities: Outstanding Expenses, Bills Payable Secured Unsecured Loans, Contingent Liabilities	10	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Kavita Vilas Purandare DEPARTMENT: Commerce CLASS: SYBCOM SEMESTER: IV
(Subject : Business Law) MONTH: November to March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To learn Indian Companies Act, 2013 Corporate Law and IPR, Indian Partnership Act 1932 and Consumer protection Act, 1986

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian companies Act, 2013	• Company and its formation, definition, nature of company. • Advantages and disadvantages of company. • Membership of companies. • Types of companies • Memorandum of Association and Articles of Association • prospectus	15		Chalk and Board
Corporate Law and IPR	• Classification of directors, women directors • Meetings, various types of meeting of shareholders and board, convening and conduct of meeting • Intellectual Property Rights – salient features,	15		Chalk and Board
Indian Partnership	• Definition, types of partnership act. • Reconstitution of partnership firm, dissolution of the firm.	15		Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Act, 1932	• Limited liability partnership			
Consumer Protection Act, 1986	• Introduction, definition of consumer, unfair trade practices • Consumer protection redressal agencies – jurisdiction. Penalties for complaints. • Competition Act 2002, objectives of the Act, Sailent features, competition commission of India.	15		Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_Dr. Mabel Lobo DEPARTMENT: Accountancy_____ CLASS: S.Y. B. Com. SEMESTER: IV___

SUBJECT: Financial Accounting and Auditing – Auditing MONTH: December 2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to: 1] Understand Need for Auditing
2] Acquire Knowledge tools and techniques of Auditing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Auditing	A. Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error, Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit	10	Principles of External Auditing Brenda Porter,	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Audit Planning, Procedures and Documentation	A. Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach B. Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. C. Audit Working Papers – Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.	10	Auditing Theory Ian Denni	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Auditing Techniques and Internal Audit Introduction	A. Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. B. Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample C. Internal Control – Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. D. Internal Audit : Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs Internal Audit	15	Contemporary Auditing Michael C. Knapp	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Auditing Techniques : Vouching & Verification	A. Audit of Income : Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received B. Audit of Expenditure : Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense C. Audit of Assets Book Debts / Debtors, Stocks – Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures D. Audit of Liabilities : Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities	10	Contemporary Auditing Michael C. Knapp	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: TYBCOM SEMESTER: 5 (Subject : Financial Accounting)
MONTH: June - September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Final Accounts of Companies	Provisions of companies act related to preparation of final accounts , format of balance sheet and general instructions for preparation of balance sheet (Notes to accounts). Format of statement of P&L and general instructions for preparation ofstatement of P&L under guidance of ICAI (Notes to accounts). Adjustment of final accounts and adjustment effect , accounting standard.Practical Sums	18	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom
Unit 2 Internal Reconstruction	Meaning and need of internal reconstruction , Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Practical sums	18	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 36

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : Archana Ramchandra Patil DEPARTMENT : Commerce

CLASS : TYBCOM (G,H,I) SEM : V SUB: Commerce V MONTH : July-Oct. YEAR : 2022-23

LEARNINGOBJECTIVE/S : The learners will be able to learn various aspects about marketing. Marketing is very essential part of commerce. This subject is helpful to develop marketing skills among learners

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
MODULE I : INTRODUCTION TO MARKETING	Marketing Concept, features, importance, functions, evolution, Marketing research, marketing information system, data mining , Consumer behaviour, market segmentation, consumer relationship management, market targeting	10	Marketing Management by Philip Kotler	Chalk & board

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Module II **MARKETING DECISION I**	Marketing mix, product decision areas, Product life cycle, management of PLC, branding, brand equity, packaging, product positioning, service positioning, pricing, pricing strategies	10	Marketing Management by Philip Kotler	Chalk & board
Module III: Marketing decision II	Physical distribution, distribution channel, supply chain management, promotion, integrated marketing communications, sales management, personal selling	10	Marketing Management by Philip Kotler	Chalk & board

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MODULE IV : KEY MARKETING DIMENSIONS Marketing	ethics, unethical practices in marketing, general role of consumer organisations, competitive strategies for market leader, market challenger, market follower, niche marketing, Rural marketing, digital marketing, green marketing, Challenges faced by marketing managers in 21st century, careers in marketing, success & failure of brands in India	12	Marketing Management by Philip Kotler	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 42

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mr. ARJUN VISHWAKARMA DEPARTMENT: _Commerce_ CLASS: _T.Y.Bcom SEMESTER: V (Subject : Computer System And Application)

MONTH: NOVEMBER - MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S:

Learners will be able to understand the concept of Internet , computer Network , searching methods and cybercrime. Learners will be able to analyze the information using Spread Sheet and MySQL using SQL Language.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –I Data communication, networking and Internet	Data communication and components, data representation, distributed processing	01	Computer System And Application Manan Prakashan	POWER POINT PRESENTATION AND Google Meet , Board , Chalk and Duster
	Network basics and infrastructure - Definition, types (LAN,MAN,WAN) - Network structure - Topologies – Star, Bus Ring	01		

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TEACHING PLAN (UNIT PLAN)

	- Network media, wired- Twisted Pair , Co-axial, Fiber Optic and wireless radio and infrared. - Network hardware - HUBS, Bridges, Switches, Routers Network Protocols	01		
	Internet – Definition, Types of Connection, Hot-Spot, Services on Net – www, email, blog IP address, domain name, URL, Hyperlink, web browser, searching directories, Search engine, Boolean search (AND OR NOT), Advance search, meta search E-mail, parts of email address , cybercrime, hacking, sniffing, spoofing	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –II DATABASE AND MYSQL	INTRODUCTION TO MYSQL	03	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	MYSQL BASIC	03		
Unit – III DATABASE AND MYSQL	MYSQL built-in Functions , Multi table queries	06		
	Transaction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4- MS-EXCEL	Excel- Calculations using Avg., Sum functions	02	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Excel- Calculation of pivot Table.	02		
	Excel- Calculation of Selling Price. Simple interest and Compound Interest Excel- Excel Functions.	04		
	Excel- Calculation of Subtotal.	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: <u>20</u>

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Practicals : - Computer System And Application
Sem - V

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: V (Subject :Direct Taxation)

MONTH: June 2022 to Nov 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the heads of Income

To Understand concept of taxation

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Income from HP	Concept, Format, Interest, SOP, LOP, DLOP	10	Taxaman	Lecture Method , Black board, Google Classroom
Income from Other Source	Concept, Exemptions, Practical Problem	10	Taxaman	Lecture Method , Black board, Google Classroom
Total Income	Deductions, Practical Problems	10	Taxaman	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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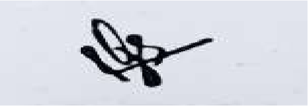

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: SYBCOM SEMESTER: V (Subject: Business Economics V

MONTH: June -October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The student must be able to understand Macro Economic overview of India

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics V	Unit I Overview of New Economic Policy-1991, - Role of Social Infrastructure with reference to education, health and family welfare. Sustainable Development Goals and Policy measures: Make in India, Invest in India, and Skill Development and Training Programmes. Foreign Investment Policy Measures in India – Foreign Investment Promotion Board, FDI- MNCs and their role.	3 lectures per week	Mehta P.L : Managerial Economics	Chalk and Board Google Classroom Classroom Discussions
	Unit-II National Agricultural Policy 2000: Objectives, Features and Implications, Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure - Market information- Marketing training- Enabling Environments-Recent Developments	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

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	Pricing Practices: Price discrimination, marginal cost pricing, Mark-up pricing, multi-product pricing, Transfer pricing		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 3: Competition Act of 2002 Industrial Sector in India Service Sector		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: Banking Sector- Recent trends, issues and challenges in Banking and Insurance Industry Money Market – Structure, Limitations and Reforms.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha   DEPARTMENT: ACCOUNTANCY

CLASS: Tybcom [O&N DIV]   MONTH: AUGUST   ACADEMIC YEAR: 2022-23

SEMESTER: V
SUBJECT:FINANCIAL ACCOUNTING)

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.
THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.	15	S.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BABLI JHA DEPARTMENT: Accountancy CLASS: TYBCOM[M&L DIV] SEMESTER: V (Subject :Direct Taxation)

MONTH: JULY 2022 to Nov 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the heads of Income

To Understand concept of taxation

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Income from HP	Concept, Format, Interest, SOP, LOP, DLOP	10	Taxaman	Lecture Method , Black board, Google Classroom
Income from Salary	Salary Income: Section 15 – 17 Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension ,Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund Concept, Exemptions, Practical Problem	10	Taxaman	Lecture Method , Black board, Google Classroom
Total Income	Deductions, Practical Problems	10	Taxaman	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Tejaswini Yogesh Naik______________________ DEPARTMENT: __Accountancy_______ CLASS: ___SYBCOM____
SEMESTER: IV (Subject : Direct tax

MONTH: JANUARY TO APRIL ACADEMIC YEAR 2022-23 __________

LEARNING OBJECTIVE/S: Difference in direct and indirect tax, meaning of income from salary, difference in allowance and perquisites, allowance, perquisites, gratuity,leave encashment, pension, retrenchment compensation, different types of house property, deduction u/s 24, gross annual value, net annual value, preconstruction interest, arrears and unrealised rent, income from business and profession, expenses which are allowed as deduction, expenses not allowed as deduction, section 32-37. Deduction under chapter VI A 80A,,80U,80D,80DD,80TTA,80E,80C,80CCC,80CCE

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	1. Intriduction 2. Definitions	2 2	Manan publication	Black board, ppt presentation

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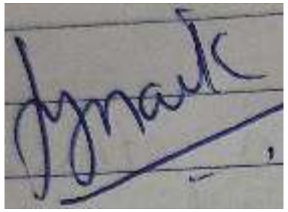
TEACHING PLAN (UNIT PLAN)

	3. Income from salary 4. Income from houseproperty 5. Income from capital gains 6. 6. Income from business and profession 7. Income from other sources 8. Deductions 9. Total income	5 4 5 5 5 4 4 3		



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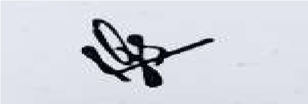

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____35

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TEACHING PLAN (UNIT PLAN)

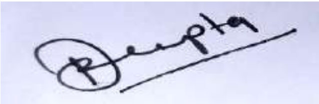
NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: V Subject: COST ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2 & 3	**Introduction To Cost Accounting** Objectives & scope of cost accounts, cost centre & cost units, cost Classification for stock valuation, coding system, elements of cost , cost Behaviour pattern	04	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.
	Classification Of Cost & Cost Sheet Classification of cost , cost of sales , cost unit, cost centres, cost sheet , Total cost & cost unit different cost for different purpose, simple Practical problems on preparation of cost sheet	15	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.
	Material Cost Procurement procedures Inventory control -techniques Inventory accounting Practical problems based on calculation of EOQ, material turnover ratio, Valuation of inventory based on FIFO method & weighted average method	11	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30



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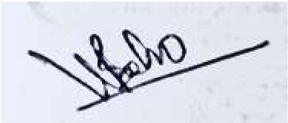

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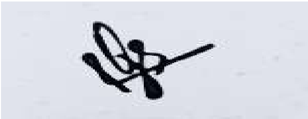

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: TYB.COM – O

SEMESTER: V MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: EXPORT MARKETING

LEARNING OBJECTIVE/S:
1. To provide basic conceptual and applicative knowledge about exports and imports
2. To develop the student's employability and interpersonal skills

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 3 India’s Foreign Trade Policy	Foreign Trade Policy (FTP) 2015-20 - Highlights and Implications, Export Trade facilitations and ease of doing business as per the new FTP	03	• Export Policy Procedures& Documentation– M. I. Mahajan, Snow White Publications Pvt. Ltd, 26th Edition, • International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd.,6th Edition	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Role of Directorate General of Foreign Trade (DGFT), Negative list of Exports, Deemed Exports	03		
	Benefits to Status Holders & Towns of Excellence; Common benefits for EHTP, BTP and STP; Benefits enjoyed by (IIAs) Integrated Industrial Areas (SEZ), EOU,AEZ	05		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: TYB.COM – O

SEMESTER: V MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: EXPORT MARKETING

LEARNING OBJECTIVE/S:1. To provide basic conceptual and applicative knowledge about exports and imports
2. To develop the student's employability and interpersonal skills

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
	Financial Incentives available to Indian Exporters - Marketing Development Assistance (MDA), Market Access Initiative (MAI), Assistance to States for Infrastructure Development for Exports (ASIDE), Industrial Raw Material Assistance Centre(IRMAC),	04	• Export Policy Procedures& Documentation– M. I. Mahajan, Snow White	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google

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TEACHING PLAN (UNIT PLAN)

MODULE 4 Export Incentives and Assistance	Institutional Assistance to Indian Exporters - Federation of Indian Export Organisations (FIEO), India Trade Promotion Organisation (ITPO), The Federation of Indian Chambers of Commerce and Industry (FICCI), Export Promotion Councils (EPCs) & Commodity Boards (CBs), Indian Institute of Foreign Trade (IIFT), Indian Institute of Packaging (IIP)	04	Publications Pvt. Ltd, 26th Edition, • International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd.,6th Edition	form Google classroom, PPTs)
	Schemes - Export Promotion Capital Goods (EPCG) Scheme, Duty Exemption and Remission Schemes, Export Advance Authorisation Scheme; Duty Drawback (DBK); IGST Refund for Exporters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _________Tejaswini Naik__________________ DEPARTMENT: accountancy CLASS: Fybcom SEMESTER: _1_ (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To give students an overview of how to keep systematic record of financial accounts and facilitate decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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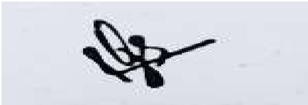

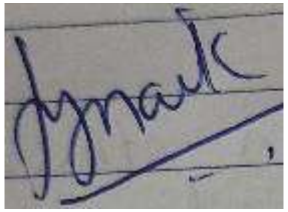

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TEACHING PLAN (UNIT PLAN)

	SUBTOPICS 1.Accounting standard 1 , 2 , and 9- Disclosure of accounting policies, stock valuation and revenue recognition.(theory only) 2. Inventory valuation – PROcess of purchase of inventory, method of valuation of stock- FIFO and weighed average method theory and practical questions. 3. Capital and revenue expenditure- difference, features, revenue income, capital income, theory and practical questions.	5 6 3	Manan publication	Blackboard

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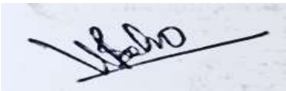

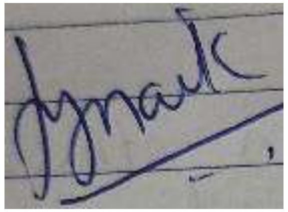

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TEACHING PLAN (UNIT PLAN)

	6. Accounting for Hire Purchase Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____21

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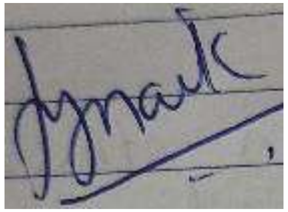

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TEACHING PLAN (UNIT PLAN)

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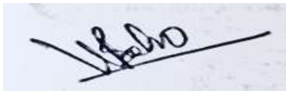

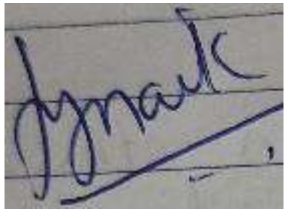

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Jinal Chohan_ DEPARTMENT: ___Commerce__ CLASS: TYBCOM O SEMESTER: _5_ (Subject :Export marketing_)

MONTH: __June-Dec______ ACADEMIC YEAR: 2022-23_____

LEARNING OBJECTIVE/S: The learners will be able to learn various aspects about Export marketing. The students will have insight in the field of exports

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
MODULE I : INTRODUCTION TO EXPORT MARKETING	●Importanceof Exports Distinction between Domestic Marketing and Export Marketing ●Factors Influencing Export Marketing Major merchandise /commodities Export of India	10	Export Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__10__

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
MODULE II - India's Foreign Trade Policy	1. Foreign Trade Policy 2015-20 2. Role of Directorate General of Foreign Trade(DGFT) 3. Benefits to Status Holders and Towns of Excellence	**10**	Export Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__10__

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __TYBCOM __ SEMESTER: V__ (Subject : MHRM__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: 1.To understands the concepts of marketing management 2.To learn about marketing process for different types of products and services 3. To understand the tools used by marketing managers in decision situations 4. To understand the marketing environment

APER, UNIT, TITLE	SUBTOPIC S	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 INTRODUCTION TO MARKETING	Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Marketing Research- Concept, Features, Process Marketing Information System- Concept, Components Data Mining- Concept, importance			
	Consumer Behaviour- concept, Factors Influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of Market Segmentation			

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TEACHING PLAN (UNIT PLAN)

	CRM- Concept Techniques Market Targeting- Concept, Five Patterns of Target Market Selection			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 2 MARKETIN G DECISION-I	**MARKETING MIX, Product Decision Areas, PLC, Branding, Brand Equity** **Packaging, Product positioning, service Positioning** **Pricing**	**12**	Phillip Kotler. (2005) Marketing Management,	**Chalk and Board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 MARKETIN G DECISION -II	**Physical Distribution, supply Chain Management**	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Promotion , Integrated Marketing Communication			
	Sales Management, Personal Selling			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 KEY MARKETING DIMENTIONS	Marketing Ethics, Competitive Strategies Rural Marketing, Digital Marketing , Green Marketing Challenges Faced by Marketing Managers, Careers in Marketing, Factors contributing to Success of Brands in India, Reasons for Failure of Brands in India	12	Phillip Kotler. (2005) Marketing Management,	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are the Provision regarding Income from House Property under Income Tax Act, 1961.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Income From House Property:** Section 22 to 27, Including Section 2 - Annual Value	15	1.Direct Taxes Law & Practice by V.K Singhania- TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are the Provision regarding Income from Business and Profession under Income Tax Act, 1961.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Profits & Gains From Business & Profession, Vocation** Section 28 to 32, 36, 37, 40, 40A, 43B, 44AD, 44ADA & 44AE Including.: Section 2 – Business	15	1.Direct Taxes Law & Practice by V.K Singhania- TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are provision of Income from Capital Gain under Income Tax Act, 1961
2. What are provision of Deductions under Chapter VI - A under Income Tax Act, 1961

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Salary Income: Section 15 – 17** Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension ,Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund	15	1.Direct Taxes Law & Practice by V.K Singhania- TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom
Deductions under Chapter VI – A	**80 A**-Restriction on claim in Chapter VI- A deductions **80 C**- Payment of LIC/PF and other eligible investments **80CCC** - Contribution to certain Pension Fund **80D** - Medical Insurance Premium **80 DD**- Maintenance and medical treatment of handicapped dependent **80E** - Interest on Educational Loan **80 TTA**-Interest on Saving Bank account **80D** - Deduction in the case of totally blind or physically handicapped or mentally retarded resident person			Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. How to Compute Taxable income of Individual and HUF.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTATION OF TOTAL INCOME	Computation of Total Income of Individual and HUF with respect to above heads and deductions	15	1.Direct Taxes Law & Practice by V.K Singhania- TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B. Com. (Division A B C D I J) SEMESTER: V

MONTH: July to October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of income from House Property and calculation of income from House Property.
2) Understand & Remember- the meaning of Income from Business / Profession and calculation of Income from Business / Profession.
3) Understand & Remember- the meaning of Capital Assets and Calculation of Income thereon

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Heads of Income	Income from House Property	3	Book by Manan publications/Internet	Board and chalk
	Income from Business/ Profession	4	Book by Manan publications/Internet	Board and chalk
	Income from Capital Gain	3	Book by Manan publications/Internet	Board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO ALL DIVISIONS: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B. Com. (Division A B C D I J)

SEMESTER: V MONTH: July to October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of Other sources and calculation of Income thereon.
2) Calculation of Total Income considering all heads of income
3) Understand & Remember- the meaning of Capital Assets and Calculation of Income thereon

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Heads of Income	Income from Other Sources	2	Book by Manan publications/Internet	Board and chalk
	Calculation of Total Income	4	Book by Manan publications/Internet	Board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE DIVISON : 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mrs. Manjushri Oak ___ DEPARTMENT: __Commerce__ CLASS: _T.Y.Bcom SEMESTER: V (Subject : Computer System And Application)

MONTH: NOVEMBER - MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S:
Learners will be able to understand the concept of Internet , computer Network , searching methods and cybercrime. Learners will be able to analyze the information using Spread Sheet and MySQL using SQL Language.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –I Data communication, networking and Internet	Data communication and components, data representation, distributed processing	01	Computer System And Application Manan Prakashan	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Network basics and infrastructure - Definition, types (LAN,MAN,WAN) - Network structure - Topologies – Star, Bus Ring	01		

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TEACHING PLAN (UNIT PLAN)

	- Network media, wired- Twisted Pair , Co-axial, Fiber Optic and wireless radio and infrared. - Network hardware - HUBS, Bridges, Switches, Routers Network Protocols	01		
	Internet – Definition, Types of Connection, Hot-Spot, Services on Net – www, email, blog IP address, domain name, URL, Hyperlink, web browser, searching directories, Search engine, Boolean search (AND OR NOT), Advance search, meta search E-mail, parts of email address , cybercrime, hacking, sniffing, spoofing	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –II DATABASE AND MYSQL Unit – III DATABASE AND MYSQL	INTRODUCTION TO MYSQL	03	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	MYSQL BASIC	03		
	MYSQL built-in Functions , Multi table queries	06		
	Transaction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4- MS-EXCEL	Excel- Calculations using Avg., Sum functions	02	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Excel- Calculation of pivot Table.	02		
	Excel- Calculation of Selling Price. Simple interest and Compound Interest Excel- Excel Functions.	04		
	Excel- Calculation of Subtotal.	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: <u>20</u>

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TEACHING PLAN (UNIT PLAN)

Practicals : - Computer System And Application
Sem - V

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

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TEACHING PLAN (UNIT PLAN)

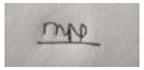
DEPARTMENT: COMMERCE- ACCOUNTANCY   CLASS: TYBCOM   SEMESTER: V (SUBJECT: COST ACCOUNTING   MONTH: JUNE TO OCT   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: APPLY THESE COST RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. INTRODUCTION TO COST ACCOUNTING	OBJECTIVES & SCOPE OF COST ACCOUNTS, COST CENTRE & COST UNITS, COST CLASSIFICATION FOR STOCK VALUATION, CODING SYSTEM, ELEMENTS OF COST , COST BEHAVIOUR PATTERN	10	COST ACCOUNTING BY ARORA M.N. VIKAS PUBLICATION	Chalk & Duster Google classroom, PPT
2. CLASSIFICATION OF COST & COST SHEET	CLASSIFICATION OF COST , COST OF SALES , COST UNIT, COST CENTRES, COST SHEET , TOTAL COST & COST UNIT DIFFERENT COST FOR DIFFERENT PURPOSE, SIMPLE PRATICAL PROBLEMS ON PREPARATION OF COST SHEET	10	ADVANCED PROBLEMS AND SOLUTIONS IN COST ACCOUUNTING - S.N.MAHESHWARI	Chalk & Duster Google classroom, PPT
3 MATERIAL COST	PROCUREMENT PROCEDURES INVENTORY CONTROL -TECHNIQUES INVENTORY ACCOUNTING PRATICAL PROBLEMS BASED ON CALCULATION OF EOQ, MATERIAL TURNOVER RATIO, VALUATION OF INVENTORY BASED ON FIFO METHOD & WEIGHTED AVERAGE METHOD	10	PRINCIPLE & PRACTICES OF COST ACCOUNTING - N.K.PRASAD	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30



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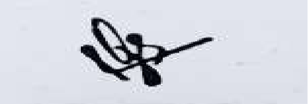

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

DEPARTMENT: COMMERCE- ACCOUNTANCY   CLASS: TYBCOM   SEMESTER: V (Subject: FINANCIAL ACCOUNTING) MONTH: JUNE TO OCT   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.

THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Internal Reconstruction	Meaning and Need of Internal Reconstruction, Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Accounting procedures, journal entries on internal reconstruction. Practical Illustrations	15	.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT
2. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.	15	S.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: V (Subject :Financial accounting)

MONTH: JUNE-OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Financial Accounting.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Investment Accounting	Meaning of Investments, AS 13, types of investments, accounting for investment accounting as per As 13, Ex and cum interest prices, weighted average method, format of investment accounts, practical illustrations.	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2 Buy back of shares	Legal provisions related to buy back, restrictions, power, transfer to CRR, Compliances, journal entries, practical illustrations.	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 3: Ethical behaviour and implication for Accountants	Meaning of ethical behaviour, corporate governance, corporate social responsibility, Rule based and principal based approach, IFAC code of ethics	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA Monali Sankhe DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B.COM div M,N SEMESTER: V MONTH: JUNE TO OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Financial Accounting.
THE LEARNERS WILL BE ABLE TO: To apply the financial accounting techniques in day to day life practically.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Investment accounting	Meaning of Investments, AS 13, types of investments, accounting for investment accounting as per As 13, Ex and cum interest prices, weighted average method, format of investment accounts, practical illustrations.	15	Manan Prakashan, ICAI material	Chalk & Duster, Google classroom, PPT
2. Buy back of shares	Legal provisions related to buy back, restrictions, power, transfer to CRR, Compliances, journal entries, practical illustrations.	15	Manan Prakashan, ICAI material	Chalk & Duster , Google classroom, PPT
3. Ethical behaviour and Implication for accountants.	Meaning of ethical behaviour, corporate governance, corporate social responsibility, Rule based and principal based approach, IFAC code of ethics	15	Manan Prakashan, ICAI material	Chalk & Duster , Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 per Division

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NAME OF THE STAFF: NEELAM.R. RATHORE DEPARTMENT: Commerce CLASS: T.Y.B.COM SEMESTER: V **(**Subject: Computer Systems and Application)

MONTH: JUNE – OCT. ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the concept of Data Communication, Various communication media, and Various types of networks.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit-I Data Communication, Networking and Internet	Data Communication: Definition, Components, Data Representation, Data Transmission, Types Of Network(LAN, MAN, WAN), Network topology(STAR, BUS, RING, MESH), Network Media, Network Hardware, OSI(Open System Interconnection) Internet (Types of connections, Definitions), Services on the net, IP addresses, Domain Names, URLs, Hyperlinks, Web Browsers, Email, Cyber Crime, Hacking, Spoofing, Sniffing.	18	Computer System And Application Manan Prakashan	Black Board And Discussion Method

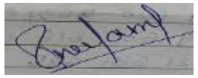
Unit-II Databases and MYSQL	SQL Basics: Primary, foreign and candidate key, Tables, data, information, Naming rules and conventions, database architecture, Database Queries: Datatypes, Create table, insert into table, deletion, updating, altering of data, Function- Text Function, Date and time function, Mathematical function,	09	Computer System And Application Manan Prakashan MYSQL The Complete Reference – By James.R. Groff	Black Board And Discussion Method
Unit-III Databases and MYSQL	MYSQL Simple Queries, select statements, filtering data using conditions, simple and complex conditions using logical, arithmetic, relational operators, Aggregate functions, Multitable queries (inner join), Nested Queries.	09	Computer System And Application Manan Prakashan MYSQL The Complete Reference – By James.R. Groff	Black Board And Discussion Method
Unit-IV Spreadsheet	Creating and Navigating worksheets and adding information to worksheets, working with Multiple Spreadsheets, Functions in Excel(Financial, Mathematical, statistical) , Data Analysis- Sorting, Subtotal, Pivot tables,	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method

Practicals : - Computer System And Application

Sem - V

Sr. No.	**Sub Topics**	**No. Of Lecture Allotted**	**TEACHING METHOD/ ICT TOOLS USED**
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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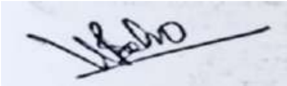

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.NILESHWARI VINAY GHUMRE

_ DEPARTMENT: COMMERCE. _ CLASS: SYBCOM SEMESTER: SEM IV_ MONTH: JAN TO MARCH ACADEMIC YEAR: 2022-23 SUB: COMMERCE IV

LEARNING OBJECTIVE/S:
The learners will be able to : Understand Quality Management, Quality Management Techniques, Service Quality Management .

Recent trends in finance

PAPER, UNIT, TITLE	SUBTOPICS ***Introduction to Quality:** Dimensions of Quality, Cost of Quality, Types of Quality.	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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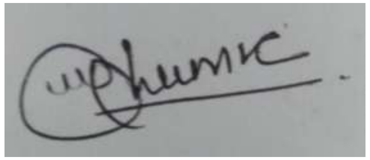
MODULE 2. QUALITY MANAGEMENT	***Quality Management Tools:** TQM : Importance , Six Sigma: Process . ISO:9000- Certification Process. Kaizen -Process. ***Service Quality Management:** Importance, SERVQUAL MODEL, Measures to improve service Quality.	**10**	**1.Production & operation management: L.C. Jhamb.**	**Google Meet goggle form**
MODULE 3. INDIAN FINANCE SYSTEM .	Indian financial system structure, primary Market IPO ,NSDL ,CDSL,SEBI stock market Credit Rating CRISIL CARE ICRA ***Derivative Market:** Types, Participants, Types of Derivative instrument	**12**	**2.Indian financial system: M.Y Khan. Tata McGraw.**	

[Type here]

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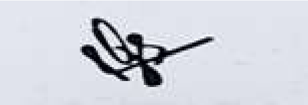

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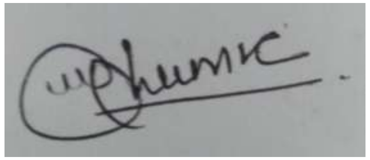
[Type here]

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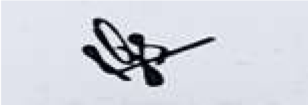

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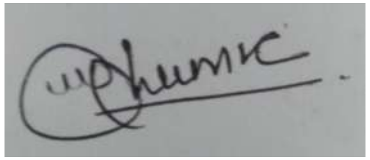
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

[Type h  ere]

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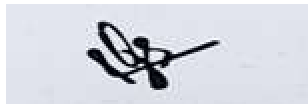

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEDA DEPARTMENT: _Commerce___ CLASS: _TYBCOM K L M N O SEMESTER: V

(Subject : MHRM_________________) MONTH: JUNE ADEMIC YEAR: _2022-23____________________

LEARNING OBJECTIVE/S: 1.To understands the concepts of marketing management 2.To learn about marketing process for different types of products and services 3. To understand the tools used by marketing managers in decision situations 4. To understand the marketing environment

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 INTRODUCTION TO MARKETING	Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Marketing Research- Concept, Features, Process Marketing Information System- Concept, Components Data Mining- Concept, importance			

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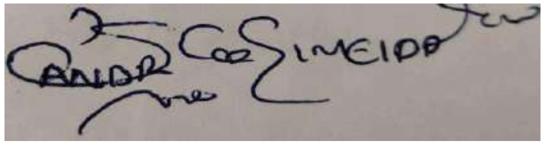
TEACHING PLAN (UNIT PLAN)

	Consumer Behaviour- concept, Factors Influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of Market Segmentation			



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TEACHING PLAN (UNIT PLAN)

	CRM- Concept Techniques Market Targeting- Concept, Five Patterns of Target Market Selection			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 2 MARKETIN G DECISION-I	**MARKETING MIX, Product Decision Areas, PLC, Branding, Brand Equity** **Packaging, Product positioning, service Positioning** **Pricing**	**12**	Phillip Kotler. (2005) Marketing Management,	**Chalk and Board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 MARKETIN G DECISION -II	Physical Distribution, supply Chain Management	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Promotion , Integrated Marketing Communication			
	Sales Management, Personal Selling			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 KEY MARKETING DIMENTIONS	Marketing Ethics, Competitive Strategies Rural Marketing, Digital Marketing , Green Marketing Challenges Faced by Marketing Managers, Careers in Marketing, Factors contributing to Success of Brands in India, Reasons for Failure of Brands in India	12	Phillip Kotler. (2005) Marketing Management,	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. SONAL RAUT** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: V Subject: FINANCIAL ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2, 3 & 5	**Internal Reconstruction** • Introduction, Meaning, Need for Reconstruction • Distinction Between Internal & External Reconstruction • Methods of Reconstruction & Accounting Treatment for same • Practical problems	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Buyback of Shares • Introduction, Company Law & Legal Provisions • Capital Redemption Account, Compliance of Conditions • Maximum Limit, Debt-Equity Ratio & Cancellation of Shares • Practical problems	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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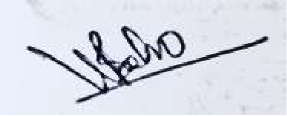

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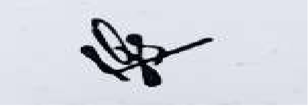

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TEACHING PLAN (UNIT PLAN)

	Ethical Behaviour and Implications for Accountants • Meaning & Features of Ethics • Personal Ethics: Factors, Standards • Professional Ethics: Factors, IFAC Code of Conduct • Business Ethics: Factors • Workplace Ethics: Difficulties • Corporate Ethics: Levels, CSR, Whistle Blower • Ethical Education: Purpose, Goal/Stages	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

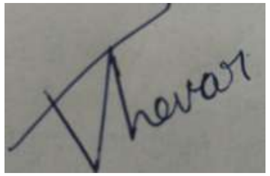
NAME OF THE STAFF:Ms VALARMATHI TEVAR DEPARTMENT: COMMERCE

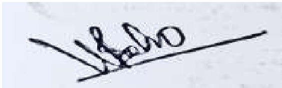
CLASS: TYBCOM Div: O SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :1. To understand Fundamental economic ideas and the operation of the economy on a national scale. 2. Basic Understanding of production, distribution and consumption of goods and services, the exchange process, the role of government, the national income and its distribution, GDP, consumption function, savings function, investment spending and the multiplier principle 3. Acquire basic knowledge of the influence of government spending on income and output. 4. Develop ability to analyze monetary policy, including the banking system and the Federal Reserve System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS Module II : Agriculture During Post Reform Period	National Agricultural Policy 2000 : Objectives, Features and Implications ♦ Agricultural Pricing and Agricultural Finance ♦ Agricultural Marketing Development : Agricultural Market Infrastructure – Market Information – Marketing Training – Enabling Environments – Recent Developments	12	MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee 5th Revised Edition – June 2022	CHALK AND DUSTER





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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Ms VALARMATHI TEVAR DEPARTMENT: COMMERCE

CLASS: TYBCOM Div: O SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. To understand Fundamental economic ideas and the operation of the economy on a national scale. 2. Basic Understanding of production, distribution and consumption of goods and services, the exchange process, the role of government, the national income and its distribution, GDP, consumption function, savings function, investment spending and the multiplier principle 3. Acquire basic knowledge of the influence of government spending on income and output. 4. Develop ability to analyze monetary policy, including the banking system and the Federal Reserve System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS Module III : The Industry and Service Sector During Post-Reform Period.	Policy Measures, Competition Act, 2002 : Disinvestment Policy, Micro, Small and Medium Enterprises [MSME Sector] Since 2007 ♦ Industrial Pollution in India : Meaning, Types, Effects and Control ♦ Service Sector : Recent Trends, Role and Growth in Healthcare and Tourism Industry	12	MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee	Chalk and duster

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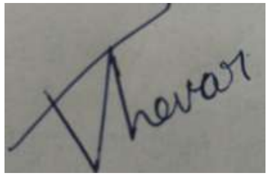
			5th Revised Edition – June 2022	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tejaswini Naik DEPARTMENT: Accountancy CLASS: Tybcom SEMESTER: VI (Subject : Indirect tax)

MONTH: December- march ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: WHAT IS INDIRECT TAX
The learners will be able to : Difference in direct and indirect tax, how to calculate gst , registration process

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIRECT TAX	1.Definition s: goods, business, consideration, e-commerce, India, person,principal supply,services, supplier, taxable supply, taxable person,n on taxable supply	5 lectures 15 lectures 15 lectures	Anaspure, manan publication	Black board

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TEACHING PLAN (UNIT PLAN)

	2.Levy and collection of tax: scope of supply, non taxable supplies, composite and mixed supply, composition levy, exemption from tax, levy and collection of tax 3. Time, place and value of supply: time of supply, value of supply, place of supply.			
	4. Input tax credit			
	5.Registration under GST	5		

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PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	6 payment of tax 7.computation of liability and tax	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45

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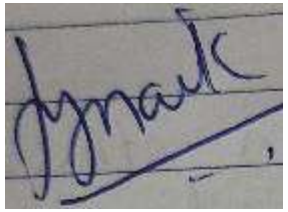

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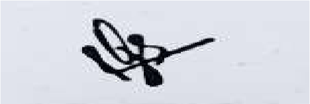

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: TYBCOM SEMESTER: 6 (Subject : Financial Accounting)

MONTH: November-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit – 1 Amalgamation , Absorption and External Reconstruction	Meaning and Types of amalgamation, Accounting procedure of Vendor Company and Purchasing Company, Calculation of Purchase Consideration. Practical Problems	**15**	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 2 Accounting of transactions of Foreign Currency	Meaning and accounting effects of changes in foreign exchange rates, translation of transcations in foreign currency, transactions of balances at year end, accounting for exchange difference. Practical Problems	**15**	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 3 for Accounting Limited Liability partnership	Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP , format of Balance sheet. Practical problems on final accounts	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method

Unit-4 Underwriting of_shares_and Debentures	Meaning of underwriting and underwriting commission , payment of commission to underwriters , sub- underwriters , brokers etc. Types of underwriting, explaination about marked, unmarked and firm underwriting and liability of underwriters. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 5 Liquidation of Companies	Meaning of liquidation and winding up,preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidators statement of account. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : Archana Ramchandra Patil DEPARTMENT : Commerce

CLASS : TYBCOM (I,J) SEM : VI SUB: Commerce VI MONTH : DEC-March YEAR : 2022-23

LEARNING OBJECTIVE/S : The learners will be able to learn importance of human resource management.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I: Human Resource Management	Human Resource Management, human resource planning, job analysis, job design, recruitment, selection, E-selection	12	Human ResourceManagement by John Storey	Chalk & board
UNIT II Human Resource Development	Human resource development, training, performance appraisal, potential appraisal, career planning, succession planning, mentoring, counselling	12	HumanResource Management by John Storey	Chalk & board

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UNIT III Human Relations	Human relations, leadership, motivation, employee morale, EQ & SQ, employee grievance, employee welfare measures and health and safety measures	12	Human Resource Management by John Storey	Chalk & board
UNIT IV Trends in human resource management	HR in changing environment, competencies, learning organisation, innovation culture, trends in HRM, employee engagement, HRIS, changing pattern of employment, challenges of HRM, employee empowerment, workforce diversity, attrition, downsizing, employee absenteeism, work life balance, sexual harassment at workplace, HR practices, Millennial competency mapping	12	Human Resource Management by John Storey	Chalk & board

TOTAL NUMBE OF LECTURES ALLOCATED TO THE UNIT: 48

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mr. ARJUN VISHWAKARMA_ DEPARTMENT: _Commerce_______ CLASS: _ T.Y.Bcom SEMESTER: VI (Subject : Computer System And Application) MONTH: NOVEMBER- MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S: Learner will able to understand benefits of e-commerce, payment system, business modules etc..
Learner will able to learn fundamentals of designing , implementing and distributing a visual basic application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
E- Commerce	Definition of e-commerce, features of e-commerce, types of e-commerce, B2C,B2B,C2C,P2P.	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Googlee Meet Board , Chalk and Duster
	Business Modules- Advertising, subscription, transaction fee, Sales revenue, Affiliate Revenue.	02		
	Major B2c Models. E-commerce security Encryption- digital signature, SSL. Payment system	01		
	Online credit card Transaction working, SET protocol. Limitations of e-commerce. M-commerce – Definition and features.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Introduction to VB GUI and programming language, Visual Basic Environment,	01		
	Introduction to VB control, designing the user interface, coding of controls, and role of properties.	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
Visual Basic	Use of variables and controls, data types, naming rules/convention, declaring variables, val function and operation, formatting data,	07		
	Project related to decision and condition, use of statement, function with option button and check boxes	02		
	Input validation, Sub-procedure and Sub-function,	03		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Spreadsheet.	Creating and using Templates, Using Predefined templates, Adding protection option. Creating and Linking Multiple Spreadsheet.	02	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Using Formulas and logical operators with different examples.	02		
	Creating and using named ranges. Creating Formulas that use reference to cells in different worksheets with examples.	02		
	Database functions LOOKUP,VLOOKUP,HLOOKUP Conditional Logic Functions IF,COUNTIF,SUMIF,AVERAGEIF WITH EXAMPLES String Functions	03		
	Date Functions, Statistical Functions, Data Analysis using Filter with customized condition and Graphical representation of data using different charts. ,Using Scenarios ,Creating and managing Scenarios, Goal Seek. , Solver Understanding Macros, Creating, Recording and running Simple macros.	09		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

Practicals : - Computer System And Application

Sem - VI

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations of Taxable Income (If Statement)	01	Computer, Ms-Excel
Practical 2	Excel – Date and Time Function	01	Computer, Ms-Excel
Practical 3	Excel - Text Functions	01	Computer, Ms-Excel
Practical 4	Excel – Use of V lookup function	01	Computer, Ms-Excel
Practical 5	Excel – Maths Function	01	Computer, Ms-Excel
Practical 6	Excel- Advance filter use of charts (Pie, Bar etc.)	01	Computer, Ms-Excel
Practical 7	Visual Basic - Project on welcome message	01	Computer, Visual Studio 6.0
Practical 8	Visual Basic - Calculations of simple and compound interest	01	Computer, Visual Studio 6.0
Practical 9	Visual Basic - Project on text specification(change of font and colour)	01	Computer, Visual Studio 6.0
Practical 10	Visual Basic - Calculating factorial of numbers (Loops)	01	Computer, Visual Studio 6.0

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: VI (Subject :Direct Taxation)

MONTH: Dec 2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the process under GST

To Understand concept of GST

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Registration	Rules for Registration, Practical Problems	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom
Input Tax Credit	Rules of ITC , Practical Problems	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom
Collection and Levy	Exempted list, Negative List, Computation of GST	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: TYBCOM SEMESTER: VI (Subject: Business Economics VI

MONTH: November - March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The student must be able to understand basic concept and theories of international economics

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics VI	Unit I Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations.	3 lectures per week	International Economics : Domnic Salvator International Economics : M.L. Jhingan	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives:-EU and Brexit, ASAEN	3 lectures per week	International Economics : Domnic Salvator International Economics : M.L. Jhingan	Chalk and Board Google Classroom Classroom Discussions
	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTO-		International Economics : Domnic Salvator International Economics : M.L. Jhingan .	Chalk and Board Google Classroom Classroom Discussions
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.		International Economics : Domnic Salvator	Chalk and Board Google Classroom Classroom Discussions

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			International Economics : M.L. Jhingan	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: T.Y.B.Com (E,F) SEMESTER: VI

MONTH: June to Oct ACADEMIC YEAR: 2022-2023 Subject: Commerce

LEARNING OBJECTIVES:
To acquaint the learners with the basic concepts of Production Management, Inventory Management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT I:	Human Resource Management, human resource planning, job analysis, job design, recruitment, selection, E-selection	10	Human ResourceManagement by John Storey	Chalk & board
UNIT II	Human resource development, training, performance appraisal, potential appraisal, career planning, succession planning, mentoring, counselling	10		

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TEACHING PLAN (UNIT PLAN)

UNIT III	Human relations, leadership, motivation, employee morale, EQ & SQ, employee grievance, employee welfare measures and health and safety measures	10		
UNIT IV	HR in changing environment, competencies, learning organisation, innovation culture, trends in HRM, employee engagement, HRIS, changing pattern of employment, challenges of HRM, employee empowerment, workforce diversity, attrition, downsizing, employee absenteeism, work life balance, sexual harassment at workplace, HR practices, Millennial competency mapping	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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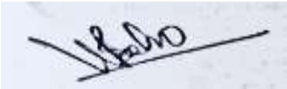

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: TYBCOM (DIV M) SEMESTER: VI(Subject : HRM – COMMERCE VI)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To gain the knowledge of Human Resource Management .

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 HRM	Human resource management- concept functions importance traditional versus strategic hrm Human resource planning- concept steps in human resource planning Job analysis concept components, job design concept technique Recruitment sources of recruitment Selection concept process techniques of E- SelectionHuman resource development – concept and functions	10	Human Resource Management – Gary Dessler , Biju Varkkey	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 2 HRD	Human resource development – concept and functions Training methods of training evaluating training effectiveness Performance appraisal concept and importance, benefits and limitations methods			
Unit 3 Human relations	Human relations concept and significance Leadership concept transactional transformational leadership Motivation concept theories of motivation Maslow need hierarchy theory, vrooms expectancy theory, macgregors theory X theory y, pinks theory of motivation Employees morale emotional quotient and spiritual quotient Employee grievance causes procedure of redressal Employee welfare majors and health and safety measures	12	Human Resource Management – Gary Dessler , Biju Varkkey	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 4 : Recent Trends in HRM	HR in changing environment Competencies concept classification Learning organization, innovation culture Trends in human resource management Employee engagement concept and types Human resource information system	12	Human Resource Management – Gary Dessler , Biju Varkkey	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

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SIGNATURE OF THE H.O.D
(Commerce)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Delcy Lopes DEPARTMENT: Accountancy CLASS: T.Y.B. Com. SEMESTER: VI (Subject : Financial Accounting)

MONTH: November - MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit - 1	**Amalgamation ,Absorption and External Reconstruction-** Meaning and Types of amalgamation, Accounting procedure of Vendor Company and Purchasing Company, Calculation of Purchase Consideration. Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2	**Accounting of transactions of Foreign Currency-** Meaning and accounting effects of changes in foreign exchange rates, translation of transactions in foreign currency, transactions of balances at year end, accounting for exchange difference. Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -3	**Accounting for Limited Liability Partnership-** Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP ,	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

	format of Balance sheet. Practical problems on final accounts			
Unit – 4	**Underwriting of shares and Debentures-** Meaning, features, formula, format, practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit - 5	**Liquidation of Companies-** Meaning of liquidation and winding up, preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidators statement of account. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:60

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: S.Y.BCom SEMESTER: III Subject: MANAGEMENT ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand what is GST and how it is reflected in our practical life. The learners will be able to understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3, 4 & 5	**Introduction to GST** ● What is GST ● Need for GST ● Dual GST Mode	05	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Value of Supply ● Transaction Value as Value of Supply ● CGST Rules-2017 Determination of Value of supply (Rule 27 to 35)	10	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Input Tax Credit Stamp Payment of Tax ● Eligibility for taking Input Tax Credit ● Input Tax Credit in Special Circumstances ● Computation of Tax Liability ● Payment of Tax (Section 49 and Section 50 of CGST Act)	15	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

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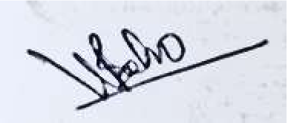

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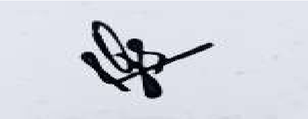

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TEACHING PLAN (UNIT PLAN)

	Registration under GST Law ● Persons liable for Registration ● Persons not liable for Registration ● Compulsory Registration ● Persons not liable for Registration ● Procedure for Registration ● Amendment of Registration ● Cancellation of Registration ● Revocation of cancellation of Registration ● Practical Problems ● Exemption from GST ● Time of Supply ● Place of Supply ● Computation of GST	20	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Jagruti Naukudkar DEPARTMENT: Commerce CLASS: T.Y.B.COM DIV: M,N

SEMESTER: VI MONTH: December - March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S :

1) Knowledge based & Conceptual learning to get acquainted with objective type test.
2) Solve practical questions using concepts.
3) Financial Goal Setting & decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Cost Accounting	Unit 1 Contract Costing Progress Payment, Retention Money, Contract A/C, Accounting of Mat, Treatment of profit on incomplete contract, Format of Contract A/c, Practical Problems.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method

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TEACHING PLAN (UNIT PLAN)

	Unit 2 Process Costing Process Loss, Abnormal Gain & Losses, Joint & by products, Practical Problems.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 3 Marginal costing Meaning, Cost volume profit, PV Ratio, Break Even Point, Margin of Safety, theory and Practical Problems.	8	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 4 Standard costing Imp of standard costing , Variances, Reasons of variances, labour variances and material variances, theory and Practical Problems.	8	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 5 Control Account Difference in Integrated and Non Integrated Accounting, Cost Control Account, Stock Control Account, Finished Goods Control Account, WIP Control Account.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 6 Some Emerging Concept of Cost A/C	8	Manan Prakashan,	Discussion, Notes, Videos, BlackBoard Method

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TEACHING PLAN (UNIT PLAN)

	Target Costing, Life Cycle Costing, Benchmarking, ABC Costing		Inernet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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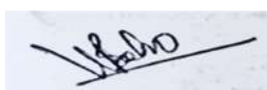

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti Naukudkar** DEPARTMENT**: COMMERCE** CLASS: **T.Y.B.COM** DIV: **G, K, L**

SEMESTER: **VI** MONTH: **December - March** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1) Knowledge based & Conceptual learning to get acquainted with objective type test.
2) Solve practical questions using concepts.
3) Financial Goal Setting & decision making.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit – 1 Amalgamation , Absorption and External Reconstruction	Meaning and Types of amalgamation. Accounting procedure of Vendor Company and Purchasing Company. Calculation of Purchase Consideration. Practical Problems.	15	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 2 Accounting of transactions of	Meaning and accounting effects of changes in foreign exchange rates, translation of transactions in foreign currency, transactions of balances at year end, accounting for exchange difference.	10	Manan Prakashan, Financial Ac. counting by R.	Discussion, Notes, Videos, BlackBoard

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TEACHING PLAN (UNIT PLAN)

Foreign Currency	Practical Problems.		Narayanaswamy	Method
Unit- 3 Liquidation of Companies	Meaning of liquidation and winding up,preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidator's statement of account. Practical problems.	15	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 4 Underwriting of shares and Debentures	Meaning of underwriting and underwriting commission, payment of commission to underwriters, sub- underwriters, brokers etc. Types of underwriting, explanation about marked, unmarked and firm underwriting and liability of underwriters. Practical problems.	10	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 5 Accounting for Limited Liability partnership	Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP, format of Balance sheet. Practical problems.	10	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce VI__ CLASS: __TYBCOM__ SEMESTER: VI__ (Subject : HRM__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Human Resource Management	Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design- Concept, Techniques Recruitment- Concept, Sources of Recruitment Selection - Concept , process , Techniques of E, selection,	11	Human Resource Development" by Jon M Werner and Randy L DeSimone	Chalk and Board

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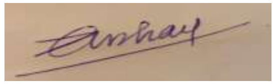
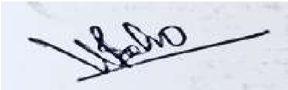
TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 2 Human Resource Development	Human Resource Development- Concept, functions Training-Concept, Process of identifying training and development needs, Methods of Training & Development	11	**Human Resource Development" by Jon M**	**Chalk and Board**





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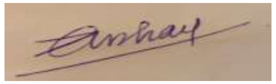
TEACHING PLAN (UNIT PLAN)

			Werner and Randy L DeSimone	
	Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance			
	Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counselling- Concept, Techniques.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED



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TEACHING PLAN (UNIT PLAN)

Unit 3 Human Relations	Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation,(Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)			
	Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board
	Employee Grievance- Causes, Procedure for Grievance redressal Employee welfare measures and Health & Safety Measures.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENC E/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Trends in human resources	HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role.	11	**Human Resource Developmen t" by Jon M Werner and Randy L DeSimone**	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Trends in Human Resource Management,: Employee Engagement-Concept, Types Human resource Information System (HRIS) – Concept, Importance, Changing patterns of employment.			
	Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Introduction to GST	Introduction to GST • What is GST • Need for GST • Dual GST Mode	1	Manan Prakashan, Self-maintained notes, ICAI study material	Google meet, PPTs

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 3 Value of Supply	• Transaction Value as Value of Supply • CGST RULES – 2017 Determination of Value of supply (Rule 27 to 35)_	4	Manan Prakashan, Self-maintained notes, ICAI study material	PPTs, Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 4 Input Tax Credit & Payment of Tax	Input Tax Credit & Payment of Tax • Eligibility for taking Input Tax Credit • Input Tax Credit in Special Circumstances • Computation of Tax Liability • Payment of Tax (Section 49 and Section 50 of CGST Act)	4	Manan Prakashan, Self-maintained notes, ICAI study material	PPTs, Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 5 Registration under GST Law	Registration under GST Law • Persons liable for Registration • Persons not liable for Registration • Compulsory Registration • Persons not liable for Registration • Procedure for Registration • Amendment of Registration • Cancellation of Registration • Revocation of cancellation of Registration • Practical Problems	4	Manan Prakashan, Self-maintained notes, ICAI study material	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 5 Registration under GST Law	• Exemption from GST • Time of Supply • Place of Supply • Computation of GST	6	Manan Prakashan, Self-maintained notes, ICAI study material	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS:TYBCOM (DIV A,B,C,)

SEMESTER: VI MONTH: December2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To let students understand what is GST and how it is reflected in our practical life.
The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Introduction to GST	Introduction to GST ● What is GST ● Need for GST ● Dual GST Mode	1	Manan Prakashan, Self-maintained notes, ICAI study material	Google meet, PPTs

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mrs. Manjushri Oak _ DEPARTMENT: _Commerce__ CLASS: _T.Y.Bcom SEMESTER: VI (Subject : Computer System And Application) MONTH: NOVEMBER- MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S: Learner will able to understand benefits of e-commerce, payment system, business modules etc..
Learner will able to learn fundamentals of designing , implementing and distributing a visual basic application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
E- Commerce	Definition of e-commerce, features of e-commerce, types of e-commerce, B2C,B2B,C2C,P2P.	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board , Chalk and Duster
	Business Modules- Advertising, subscription, transaction fee, Sales revenue, Affiliate Revenue.	02		
	Major B2c Models. E-commerce security Encryption- digital signature, SSL. Payment system	01		
	Online credit card Transaction working, SET protocol. Limitations of e-commerce. M-commerce – Definition and features.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Visual Basic	Introduction to VB GUI and programming language, Visual Basic Environment,	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Introduction to VB control, designing the user interface, coding of controls, and role of properties.	01		
	Use of variables and controls, data types, naming rules/convention, declaring variables, val function and operation, formatting data,	07		
	Project related to decision and condition, use of statement, function with option button and check boxes	02		
	Input validation, Sub-procedure and Sub-function,	03		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Spreadsheet.	Creating and using Templates, Using Predefined templates, Adding protection option. Creating and Linking Multiple Spreadsheet.	02	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Using Formulas and logical operators with different examples.	02		
	Creating and using named ranges. Creating Formulas that use reference to cells in different worksheets with examples.	02		
	Database functions LOOKUP,VLOOKUP,HLOOKUP Conditional Logic Functions IF,COUNTIF,SUMIF,AVERAGEIF WITH EXAMPLES String Functions	03		
	Date Functions, Statistical Functions, Data Analysis using Filter with customized condition and Graphical representation of data using different charts. ,Using Scenarios ,Creating and managing Scenarios, Goal Seek. , Solver Understanding Macros, Creating, Recording and running Simple macros.	09		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

Practicals : - Computer System And Application

Sem - VI

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations of Taxable Income (If Statement)	01	Computer, Ms-Excel
Practical 2	Excel – Date and Time Function	01	Computer, Ms-Excel
Practical 3	Excel - Text Functions	01	Computer, Ms-Excel
Practical 4	Excel – Use of V lookup function	01	Computer, Ms-Excel
Practical 5	Excel – Maths Function	01	Computer, Ms-Excel
Practical 6	Excel- Advance filter use of charts (Pie, Bar etc.)	01	Computer, Ms-Excel
Practical 7	Visual Basic - Project on welcome message	01	Computer, Visual Studio 6.0
Practical 8	Visual Basic - Calculations of simple and compound interest	01	Computer, Visual Studio 6.0
Practical 9	Visual Basic - Project on text specification(change of font and colour)	01	Computer, Visual Studio 6.0
Practical 10	Visual Basic - Calculating factorial of numbers (Loops)	01	Computer, Visual Studio 6.0

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: VI (Subject : Cost Accounting)

MONTH: Dec- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various techniques of Cost Accounting.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Cost Control Accounts.	Meaning, advantages, Cost control accounts, principal and subsidiary accounts, preparation of cost control accounts.	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2 Contract Costing	Meaning, Contractor & contractee, retention money, WIP, work certified and uncertified, Contract profits, treatments, practical illustrations	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 3: Process Costing	Meaning of process industries, process account, normal loss, abnormal loss, abnormal gains, inter process profits, format of process account, practical illustrations	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Unit 4: Standard Costing & Marginal Costing	Standard Costing methods & Marginal Costing Methods	16	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 5: Emerging Concepts in Cost Accounting	Target costing, life cycle costing, Benchmarking, ABC costing.	08	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA Monali Sankhe DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B.COM div F,G,H SEMESTER: V**I** MONTH: Nov March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Cost Accounting.
THE LEARNERS WILL BE ABLE TO: To apply the Cost accounting techniques to practical life cases

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Cost control accounts	Meaning, advantages, Cost control accounts, principal and subsidiary accounts, preparation of cost control accounts.	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Contract Costing	Meaning, Contractor & contractee, retention money, WIP, work certified and uncertified, Contract profits, treatments, practical illustrations.	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Process costing	Meaning of process industries, process account, normal loss, abnormal loss, abnormal gains, inter process profits, format of process account, practical illustrations	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT

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NAAC accredited "B" Grade, 2.69 CGPA

Standard costing	Types of standards, setting of standards, material variances , labour variances, practical illustrations.	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

Emerging Concepts in Cost accounting.	Target costing, life cycle costing, Benchmarking, ABC costing. .	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Marginal Costing	Meaning of marginal cost, contribution, break even analysis, margin of safety, PV ratio, practical illustrations.	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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NAME OF THE STAFF: NEELAM.R. RATHORE DEPARTMENT: Commerce CLASS: T.Y.B.COM SEMESTER: VI **(**Subject: Computer Systems and Application)

MONTH: NOV – OCT. ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the concept of Data Communication, Various communication media, and Various types of networks.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit-I E-Commerce	Definition , Features, Types of E-Commerce, Business Models, Major B2C models, E-Commerce Security, Encryption, Payments ,Encryption , Payment Systems, Online Credit Card Transaction ,Limitation of E-Commerce, M-Commerce.	18	Computer System And Application Manan Prakashan	Black Board And Discussion Method
Unit-II Advanced Spreadsheet	Multiple Spreadsheets, Formulas and logical Operators, functions, VLOOKUP, HLOOKUP, Conditional logic, String Functions	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method

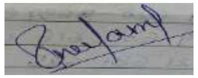
Unit-III Advanced Spreadsheet	Date and statistical functions, Data Analysis filter , Graphical representation of data, Scenarios, Goal Seek, Solver , macros	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method
Unit-IV Visual Basic	Introduction, VB controls, Variables, Constants, and calculations. Data types, Decisions and Conditions, Sub-Procedures and Sub-Functions	09	Computer System And Application Manan Prakashan	Black Board And Discussion Method

Practicals : - Computer System And Application

Sem - VI

Sr. No.	**Sub Topics**	**No. Of Lecture Allotted**	**TEACHING METHOD/ ICT TOOLS USED**
Practical 1	Excel Calculations using IF conditions	02	Projector and Computer, Black Board
Practical 2	Excel – Date and Time functions	02	Projector and Computer, Black Board
Practical 3	Excel - Maths Functions	02	Projector and Computer, Black Board
Practical 4	Excel – Vlookup function	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations using Filter	02	Projector and Computer, Black Board
Practical 6	Excel-Graphical Representation of Data	02	Projector and Computer, Black Board
Practical 7	Visual Basic-Change of label and command buttons	02	Projector and Computer, Black Board
Practical 8	Visual Basic-Designing of Form and change of fonts and colors	02	Projector and Computer, Black Board
Practical 9	Visual Basic-Calculate Simple and Compound Interest	02	Projector and Computer, Black Board
Practical 10	Visual Basic- To calculate Factorial	02	Projector and Computer, Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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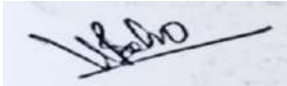

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.NILESHWARI VINAY GHUMRE

_ DEPARTMENT: COMMERCE. _ CLASS: SYBCOM SEMESTER: SEM IV_ MONTH: JAN TO MARCH ACADEMIC YEAR: 2022-23 SUB: COMMERCE IV

LEARNING OBJECTIVE/S:
The learners will be able to : Understand Quality Management, Quality Management Techniques, Service Quality Management .

Recent trends in finance

PAPER, UNIT, TITLE	**SUBTOPICS** ***Introduction to Quality:** Dimensions of Quality, Cost of Quality, Types of Quality.	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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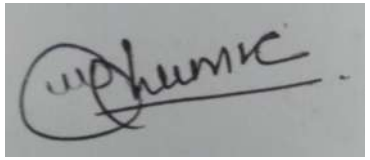
MODULE 2. QUALITY MANAGEMENT	***Quality Management Tools:** TQM : Importance , Six Sigma: Process . ISO:9000- Certification Process. Kaizen -Process. ***Service Quality Management:** Importance, SERVQUAL MODEL, Measures to improve service Quality.	**10**	**1.Production & operation management: L.C. Jhamb.**	**Google Meet goggle form**
MODULE 3. INDIAN FINANCE SYSTEM .	Indian financial system structure, primary Market IPO ,NSDL ,CDSL,SEBI stock market Credit Rating CRISIL CARE ICRA ***Derivative Market:** Types, Participants, Types of Derivative instrument	**12**	**2.Indian financial system: M.Y Khan. Tata McGraw.**	

[Type here]

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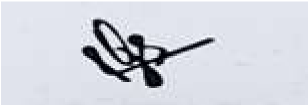

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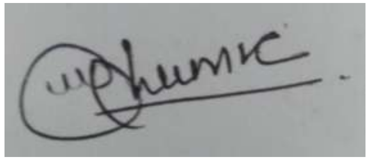
[Type h  ere]

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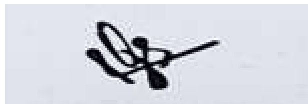

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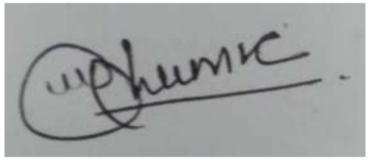
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

[Type h  ere]

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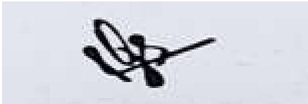

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEDA CLASS:__TYBCOM__K L M N O SEMESTER: VI
DEPARTMENT:__Commerce VI___________ _______________(Subject : HRM_______)

MONTH: November _______________ ACADEMIC YEAR:__2022-23________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Human Resource Management	Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design-Concept, Techniques	11	Human Resource Development" by Jon M Werner and Randy L	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Recruitment- Concept, Sources of Recruitment Selection - Concept , process , Techniques of E, selection,		DeSimone	

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 2 Human Resource Development	Human Resource Development- Concept, functions Training-Concept, Process of identifying training and development needs, Methods of Training & Development	**11**	**Human Resource Development" by Jon M**	**Chalk and Board**

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TEACHING PLAN (UNIT PLAN)

			Werner and Randy L DeSimone	
	Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance			
	Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counselling- Concept, Techniques.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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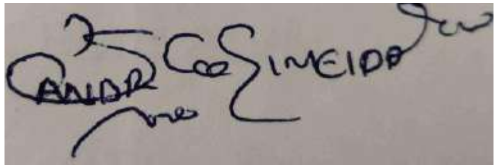
APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED



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TEACHING PLAN (UNIT PLAN)

Unit 3 Human Relations	Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation,(Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)			
	Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board
	Employee Grievance- Causes, Procedure for Grievance redressal Employee welfare measures and Health & Safety Measures.			

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Trends in human resources	HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role.	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Trends in Human Resource Management,: Employee Engagement-Concept, Types Human resource Information System (HRIS) – Concept, Importance, Changing patterns of employment.			
	Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. SONAL RAUT** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: VI Subject: FINANCIAL ACCOUNTING

MONTH: DEC, JAN, FEB & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3, 4 & 5	**AS – 14 - Amalgamation, Absorption & External Reconstruction:** In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and Purchase method respectively. Meaning and Computation of Purchase consideration. Problems based on purchase method only.	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Accounting of Transactions of Foreign Currency In relation to purchase and sale of goods, services and assets and Loan and credit transactions. Computation and treatment of exchange rate differences	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Liquidation of Companies Meaning of liquidation or winding up, Preferential payments, Overriding preferential payments, Preparation of statement of affairs, deficit / surplus account, Liquidator's final statement of account	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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	Underwriting of Shares and Debentures Introduction, Underwriting, Underwriting Commission, Provision of Companies Act with respect to Payment of underwriting commission, Underwriters, Sub-Underwriters, Brokers and, Manager to issues, Types of underwriting, Abatement Clause, Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Accounting for Limited Liability Partnership Statutory Provisions, Conversion of partnership firm into LLP, Final Accounts	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Sunitha Nair DEPARTMENT: _Commerce_ CLASS: T.Y.B.Com (E & F) SEMESTER: VI (Subject : Business Economics)

MONTH: December - April ACADEMIC YEAR: __2022-23

LEARNING OBJECTIVE/S: The Learners will be able to understand the old school and contemprorary method and theories utilized to understand the terms of trade and exchange along with the legalities of trading relations under the policy brackets to cater the smooth international trade between nations.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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I & II, III & IV	Unit I: Introduction to International Trade Theories of International Trade: Ricado and Heckscher - Ohlin; Terms of Trade: Types and Limitations; Gains from International Trade: Offer curves and Reciprocal Demand.	03 lectures per week	M.L. Jhingan: International Economics Dominick Salvatore: International Economics Trade and Finance	Chalk and Board, PPT, Google form test

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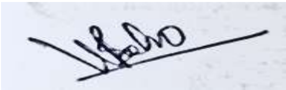

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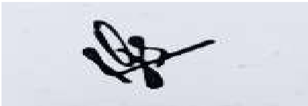

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TEACHING PLAN (UNIT PLAN)

	Unit II: Commercial Policy Commercial Trade Policy: Free Trade & Protection , Pros & Cons; Tariff and Non-Tariff Barriers: Meaning, Types and Effects; International Economic Integration: Types and Objectives, EU & BREXIT, ASEAN	03 lectures per week	Paul Krugman: International Economics Theory and Policy. Desai and Bhalerao:	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

			International Economics	
	Unit III - BALANCE OF PAYMENT AND WTO : Concept and Structure of Balance of Payments, Causes and Disequilibrium and Measures to Correct Disequilibrium in BOP, India’s Balance of Payment since 1991 and World Trade Organisation.	03 lectures per week	M.L. Jhingan: International Economics Dominick Salvatore: International	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

			Economics Trade and Finance	
	Unit IV- FOREIGN EXCHANGE MARKET: Foreign Exchange Market, Determination of Equilibrium Rate of Exchange, Purchasing Power Parity Theory, Rate of Central Bank in Foreign Exchange Rate Management	03 lectures per week	M.L. Jhingan: International Economics	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_54___

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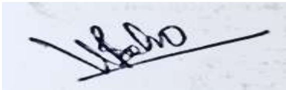

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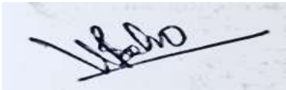

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VEENA SIHANA** DEPARTMENT: **BUSSINESS ECONOMICS** CLASS: **T.Y.BCOM** SEMESTER: **VI**

SUBJECT : **BUS. ECONOMICS-VI** MONTH: Noveber to March 2023 ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES: The student must be able to understand Introduction to International Trade, Commercial Policy, BOP & Foreign Exchange market.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	E -REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - VI	**Unit I** Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations. Gains from International trade - Offer Curves and Reciprocal Demand	**10 Lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases* *Dominick Salvatore – International Economics*	Google classroom, Google Forms CHALK DUSTER METHOD
	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International	**15 Letures**	H. L. AHUJA MORDEN ECONOMICS *M.L. Jhingan – International Economics*	

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	Economic Integration – Types and Objectives:-EU and Brexit, ASAEN			
	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTORecent Developments in TRIPS, TRIMS and GATS.	**10 Lectures**	*MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee*	
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.	**10 Lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **T.Y.BCOM** SEMESTER: **VI** (Subject : **BUS. ECONOMICS-VI**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Introduction to International Trade**

The student must be able to understand **Commercial Policy**

The student must be able to understand B**alance of payments and International Economic Organization**

The student must be able to understand **Foreign Exchange market**

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - VI	**Unit I** Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations. Gains from International trade - Offer Curves and Reciprocal Demand	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases* *Dominick Salvatore – International Economics*	Google classroom, Google Forms CHALK DUSTER METHOD
	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives:-EU and Brexit, ASAEN	15 lectures	H. L. AHUJA MORDEN ECONOMICS *M.L. Jhingan – International Economics*	

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	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTO- Recent Developments in TRIPS, TRIMS and GATS.	**10 lectures**		
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mrunal A. Darjee. DEPARTMENT:Physics CLASS: _F. Y. B. Sc. ___ SEMESTER: I MONTH: August-Nov. ACADEMIC YEAR: 2022-23

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-1 Overview of Indian Society	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference.	05	Manan prakashan	Chalk & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _05

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-II Concept of Disparity- 1:	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities.	10	Manan prakashan	Chalk & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-III Concept of Disparity- 2	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-IV The Indian Constitution:	The Indian Constitution: Philosophy of the Constitution as set out in the Preamble;The structure of the Constitution-the Preamble, Main Body and Schedules;Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-V Signigicant aspects of Political Parties	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics;Role and significance of women in politics. .	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-VI Growing Social Problems in India	a) Substance abuse- impact on youth & challenges for the future b) HIV/AIDS- awareness, prevention, treatment and services c) Problems of the elderly- causes, implications and response d) Issue of child labour- magnitude, causes, effects	15	Manan prakashan	Chack & board Method

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	and response e) Child abuse- effects and ways to prevent f) Trafficking of women- causes, effects and response			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15

NAME OF THE STAFF: Ms. Mrunal A. Darjee. DEPARTMENT:Physics CLASS: _F. Y. B. Sc. ___ SEMESTER: II MONTH: August-Nov.

ACADEMIC YEAR: 2022-23

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-I Globalisation and Indian Society:	(Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	07	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _07

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-II Human Rights	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights;Human Rights constituents with special reference to Fundamental Rights stated in the Constitution;.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-III Ecology	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development- concept and components; poverty and environment	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-IV Understanding Stress and Conflict	Causes of Stress and Conflict in Individuals and Society, Agents of Socialization And the role played by them in Developing the individual, Significance of Values,Ethics and Prejudices in Developing the individual, Stereotyping and prejudices as the significant factors in Causing Conflicts in Society, Aggression and violence as the Public Expression Conflicts	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-V Managing stress and Conflict in Contemporary Society	Types of Conflicts and use of Coping Mechanisms for managing Individual Stress, Maslow's Theory of Self-Actualization,Different Methods of Responding to Conflicts in Society , Conflicts -Resolution and Efforts towards building peace and Harmony in Society	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-VI Contemporary Societal Challenges	Increasing Urbanization,Housing, Health and Sanitation, Changing Values and Lifestyles. Impact of mass media on Culture,Farmer's Suicides and Agrarian Distress, Debate regarding genetically modified crop, Development projects and human rights violation, dam and impact on Human rights, Nuclear power projects and impact on human rights, thermo electric projects and impact on human rights, Crime among Youths, Suicide Among Youths	13	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **T.Y.B.Sc.**

SEMESTER: **V** MONTH: **- June - September** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Apply theory of quantum physics in atomic physics.
- Understand importance of electron spins, symmetric & antisymmetric wave functions & vector atom model.
- Learn the Effect of magnetic field on atoms & its application.
- Learn molecular physics & its application.
- This course will be useful to get an insight into spectroscopy.
- Get the insight of the modern medical instruments in principle, which are used in day to day life.
- From this course, the students are expected to learn some mathematical techniques required to understand the physical phenomena at the undergraduate level and get exposure to important ideas of statistical mechanics.
- The units on statistical mechanics would introduce the students to the concept of microstates, Boltzmann distribution and statistical origins of entropy.
- It is also expected that the student will understand the difference between different statistics, classical as well as quantum.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III, Unit -3 **Atomic &**	1. Molecular spectra (Diatomic Molecules): Rotational energy levels, Rotational spectra, Vibrational energy levels, Vibrational-Rotational spectra. Electronic	15	B: Perspectives of Modern Physics: Arthur	chalk and Board

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molecular Physics	Spectra of Diatomic molecules: The Born-Oppenheimer approximation, Intensity of vibrational-electronic spectra: The Franck-Condon principle. 2. Infrared spectrometer & Microwave spectrometer		Beiser Page 8 of 18 McGraw Hill.	
Paper-III, Unit -4 Atomic & molecular Physics	1. Raman Effect: Quantum Theory of Raman Effect, Pure Rotational Raman spectra: Linear molecules, symmetric top molecules, Asymmetric top molecules, Vibrational Raman spectra: Raman activity of vibrations, Experimental set up of Raman Effect. 2. Electron spin resonance: Introduction, Principle of ESR, ESR spectrometer. 3. Nuclear magnetic resonance: Introduction, principle and NMR instrumentation.	15	BM: Fundamentals of Molecular Spectroscopy: C. N. Banwell & E. M. McCash (TMH).(4th Ed.) . GA: Molecular structure and spectroscopy : G Aruldhas (2nd Ed) PHI learning Pvt Ltd.	chalk and Board
Paper-I, Unit -3 Mathematical, Thermal and Statistical Physics	1. Microstates and configurations, derivation of Boltzmann distribution, dominance of Boltzmann distribution, physical meaning of the Boltzmann distribution law. 2. Definition of the canonical ensemble, relating Q to q for an ideal gas. 3. Translational partition function, equipartition theorem, energy, entropy.	15	Thermodynamics, Statistical Thermodynamics and Kinetics: T. Engel and P. Reid (Pearson).	chalk and Board
Paper-I, Unit - 4 Mathematical, Thermal and Statistical Physics	1. The probability of a distribution, The most probable distribution, Maxwell Boltzmann statistics, Molecular speeds. 2. Bose-Einstein statistics, Black-body radiation, The Rayleigh-Jeans formula. 3. The Planck radiation formula, Fermi-Dirac statistics,	15	Perspectives of Modern Physics: Arthur Beiser, (Mc Graw Hill International).	chalk and Board

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	Comparison of results.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **S.Y.B.Sc.**

SEMESTER: **III** MONTH: **June-September** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Comprehend the basic concepts of thermodynamics & its applications in physical situation.
- Learn about situations in low temperature.
- Demonstrate tentative problem solving skills in all above areas.
- Students will be exposed to contextual real life situations.
- Students will appreciate the role of Physics in 'interdisciplinary areas related to Acoustics.
- The learner will understand the scope of the subject in Industry & Research.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-3 Applied Physics – I Unit-3	1) Electrical properties: Review of energy band diagram for materials – conductors, semiconductors and insulators, Electrical conductivity in metals,	15	Electronic Properties of Materials, Rolf E Hummel.	chalk and Board

Properties of Material	semiconductors and insulators (dielectrics), effect of temperature on conductivity. 2) Optical properties: Reflection, refraction, absorption and transmission of electromagnetic radiation in solids. 3) Magnetic properties: Origin of magnetism in solids (basic idea), Types of magnetic order (paramagnetism, diamagnetism, antiferromagnetism, ferromagnetism, ferrimagnetism),magnetic hysteresis. 4) Applications: Dielectric materials: Piezoelectric, ferroelectric and pyroelectric materials.		Materials Science and Engineering: A First Course by V.Raghavan.	
Paper-3 Applied Physics – I Unit-1 Acoustics , Lasers and fibre optics	1. Acoustics of Buildings: Reverberation, Sabine's formula (without derivation) Absorption coefficient, Acoustics of Buildings, factors affecting Acoustics of Buildings, Sound distribution in an auditorium. 2. Laser : Introduction, transition between Atomic energy states (without derivation), Principle of Laser, Properties of Laser, Helium–Neon Laser, Application of Laser, Holography 3. Fibre Optics: Light propagation through Fibres, Fibre Geometry, Internal reflection, Numerical Aperture, Step-Index and Graded-Index Fibres, Applications of Fibres.	15	Modern Physics Concept and Applications – SanjeevPuri, Narosa Publication. Properties of matter and Acoustics – R Murugeshan and K. Shivaprasath, S Chand	chalk and Board

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			&Co.Ltd. (2005-Ed)	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **F.Y.B.Sc.**

SEMESTER: **I** MONTH: **July- October** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the concepts of lens system and interference.
- Demonstrate quantitative problem solving skills in all the topics covered

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-1 Unit-2 Classical Physics	1.	15		chalk and Board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: F. Y. B. Sc. SEMESTER: I MONTH: OCT-DEC

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:
The learners will be able to :

1. Understand nuclear size, nuclear properties and nuclear behavior.

2. Understand the type isotopes and their applications.

3. Numericals problem solving skills in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-I, Modern Physics	1.Structure of Nuclei:Basic properties of nuclei, Composition, Charge, Size, Rutherford's expt. for estimation of nuclear size, density of nucleus, Mass defect and Binding energy, Packing fraction, BE/A vs A plot, stability of nuclei (N Vs Z plot) and problems.	06	1.Sheth Publications, 2.SBP: Dr. S. B. Patel, Nuclear Physics Reprint 2009, New Age International	Lecture Method/ chalk & board
	2.Radioactivity: Radioactive disintegration concept of natural and artificial radioactivity, Properties of α, β, γ-rays, laws of radioactive decay, half-life, mean life (derivation not required), units of radioactivity, successive disintegration and equilibriums, radioisotopes. Numerical Problems.	07		

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	3.Carbon dating and other applications of radioactive isotopes (Agricultural, Medical, Industrial, Archaeological -information from net).	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: F. Y. B. Sc. SEMESTER: II MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1.Understand the basic concepts of digital electronics , power supply, Circuit Theorem and their applications.

2. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Electricity & Electronics	1.Circuit theorems: (Review: ohm's law, Kirchhoff's laws) Superposition Theorem, Thevenin's Theorem, Ideal Current Sources, Norton's Theorem, Reciprocity Theorem, Maximum Power Transfer Theorem. Numericals related to circuit analysis using the above theorems.	06	1.Sheth Publications. 2.VKM: V K Mehta and R Mehta Electronics Principals, MulticolouredRevised 11th Ed. reprint in 2012 ,S Chand. 3.A P Malvino, Digital Principles and Applications: Tata	Lecture Method / chalk & Black board
	2.DC power supply: Half wave rectifier , Full wave rectifier, Bridge rectifier, PIV and Ripple factor of full wave rectifier, Clipper and Clampers, Capacitor Filter. Zener diode as voltage stabilizer.	05		
	3.Digital electronics : Logic gates(Review), NAND and NOR as universal building blocks. EXOR gate: logic expression,	04		

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	logic symbol, truth table, Implementation using basic gates and its applications, Boolean algebra, Boolean theorems. De-Morgan theorems, Half adder and Full adder			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S.Y. B. Sc. SEMESTER: III MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1.Understand the basics of transistor biasing, operational amplifiers, their applications.

2.Demonstrate quantitative problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Analog Electronics	1.Transistor Biasing: Inherent Variations of Transistor Parameters, Stabilisation, Essentials of a Transistor Biasing Circuit, Stability Factor, Methods of Transistor Biasing, Base Resistor Method, Emitter Bias Circuit, Circuit analysis of Emitter Bias, Biasing with Collector Feedback Resistor, Voltage Divider Bias Method, Stability factor for Potential Divider Bias.	07	1.Sheth Publications, 2.Principles of Electronics – V. K. Mehta and Rohit Mehta. (S. Chand– Multicoloured illustrative	Lecture Method / chalk & Black board
	2.General amplifier characteristics: Concept of amplification, amplifier notations, current gain, Voltage gain, power gain, input resistance, output resistance, general theory of feedback, reasons for negative feedback, loop gain.	06		
	3.Practical circuit of transistor amplifier, phase reversal, frequency response, Decibel gain and Band width.	02		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: T.Y. B. Sc. SEMESTER: V MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1. Understand the working of Data acquisition system, D to A and A to D Converters.

2. Understand the basic concept of Electron Spin and Spin orbit coupling etc.

3. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-V, U-III, Electronics Instrumentation (Applied Physics)	1. Data acquisition systems: Objectives of DAS, Singal conditioning of inputs, Single channel Data acquisition systems, Multichannel Data acquisition system.	06	1. Sheth Publications 2. Digital Principles and Applications : A. P. Malvino and D. P. Leach. Tata M	Lecture Method/ chalk and board
	2. D to A Converters: Resistive divider network, Binary ladder network.	04		
	3. A to D Converters: Successive approximation type, Voltage to time (Single slope, Dual slope).	04		

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P-III, U-II, Atomic Physics	1. Electron Spin: The Stern-Gerlach experiment, Pauli's Exclusion Principle, Symmetric and Antisymmetric wave functions.	07	1.Sheth Publications, 2.1. AB : Perspectives of Modern Physics : Arthur	Lecture Method/ chalk and board
	2. Spin orbit coupling, Hund's Rule, Total angular momentum, Vector atom model,L-S and j-j coupling. Origin of spectral lines, Selection rules.	08		

P-V, U-II, Electronics Instrumenta tion (Applied Physics)	1.Half wave precision rectifier, Active peak detector ,active positive clamper , 2.Active positive and negative clippers	03	1. Sheth Publications 2. Digital Principles and Applications : A. P. Malvino and D. P. Leach. Tata M	Lecture Method/ chalk and board
	2.Characteristics, types ,carbon microphones and dynamic type microphone (Principle ,construction & working).Characteristics,Dynamic speaker ,multi -way speaker system .5.basic monolithic switching regulators (Buck ,Boost & Buck-boost)	07		
	3. C.R.O. (Block diagram), Front Panels, Dual Trace Mode, Probes and half digit, resolution and sensitivity, general specification	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS. CLASS: T. Y. B. Sc. SEMESTER: VI MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand the working of DC power supply, Differential amplifier and Multivibrators circuit.

2. Understand the basic concepts of 555 Timer and OP-AMP Applications.

3. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Electronics	1. Regulated DC power supply: Supply characteristics, series voltage regulator,Short circuit protection (current limit and fold back) Monolithic linear IC voltage Regulators. (LM 78XX, LM 79XX, LM 317).	07	1.Sheth Publications, 2. 1. MB : Electronic Principles : A. P. Malvino and D.J. Bates, (7th Ed.) – (TMH). 3. VKM : Principles of Electronics : V. K. Mehta and	Lecture Method/ chalk and board
	2. Differential Amplifier using transistor: The Differential Amplifier, DC and ACanalysis of a differential amplifier, Input characteristic-effect of input bias, offset current and input offset voltage on output, common mode gain, CMRR.	05		
	3. Transistor Multivibrators: Astable, Monostable and Bistable Multivibrators,Schmitt trigger.	03		

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			Rohit Mehta. S. Chand Publications. (11th	
P-II, U-III, Electronics	1. Op Amp Applications: Log amplifier, Instrumentation amplifiers, Voltage controlled current sources (grounded load), First order Active filters, Astableusing OP AMP, square wave and triangular wave generator using OP AMP,Wein-bridge oscillator using OP AMP.	09	1. Sheth Publications 2. 1. MB : Electronic Principles : A. P. Malvino and D.J. Bates, (7th Ed.) – (TMH).	Lecture Method/ chalk and board
	2. 555 Timer: Review Block diagram, Monostable and Astable operationVoltage Controlled Oscillator, Pulse Width modulator, Triggered linear ramp generator.	O6		

Paper -V (E-II) Unit-II, Advanced 8085 Programming & 8255 (PPI)	1. Introduction to advanced instructions & applications Stack & subroutine	09	1. Sheth Publications 2. Ramesh Gaonkar	Lecture Method/ chalk and board
	2. The 8255 programmable peripheral interface: block diagram of 8255 ,mode 0-simple input/output mode ,BSR mode.	O6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S.Y. B. Sc. SEMESTER: III MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1. Develop a basic understanding about issues related to Human Rights of weaker sections and Dealing with Environmental Concerns.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course, Module-I, Humans Rights Provisions, Violations and Redressal	A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04		
	E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04		
Foundation Course, Module-II,	A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. B. Some locally relevant case studies of environmental disasters.	05	1. Foundation course - II: Mannan	Lecture Method/ chalk and board

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Dealing with Environmental Concerns	C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation.	06	Prakashan.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _23

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S. Y. B. Sc. SEMESTER: IV MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1.Develop a basic understanding about issues related to Human Rights of weaker sections and ecology.

2. Appreciate the importance of developing a scientific temper towards technology and its use

in everyday life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course, Module-I, Significant, contemporary Rights of Citizens	A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories.	06	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure tofile a PIL; some landmark cases.	03		

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	D. Citizens' Charters, Public Service Guarantee Acts.	03		
Foundation Course, Module-II, Approaches to understanding Ecology	A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. B. Environmental Principles-1: the sustainability principle; the polluter pays principle, the precautionary principle.	07	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Environmental Principles-2: the equity principle; human rights principles; the participation principle.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _23

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anushita A. Moger DEPARTMENT:Physics CLASS:FYBSc SEMESTER:1

MONTH: July-September ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) understand nuclear properties and nuclear behavior.

2)demonstrate quantitative problem-solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Phy-2(unit-2) Nuclear physics	Chp-1 Interaction between particles and matter, I.P.counter and GM counter.	07		Chalk & duster method & google classroom
	Chp-2 Types of reaction and conservation laws, concept of compound and direct reaction, problems based on nuclear fusion and fission.	08		Chalk & duster method & google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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NAME: Anushita A. Moger. DEPARTMENT: Physics CLASS: S.Y.B.Sc. SEMESTER:3

MONTH: June-September. ACADEMICYEAR:2022-23

LEARNINGOBJECTIVE/S:
The learners will be able to:

1) understand basic concept of oscillator and be able to perform calculations using them.

2)to demonstrate quantitative problem solving skills in all the topics covered.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NOOFLECTURES ALLOTED**	**REFERENCE/S**	**TEACHINGMETHOD/ICTTOOLSUSED**
Phy-2(unit-3)Applied electronics	Chp-1.Oscillators, requirements for Oscillations,phase shift oscillator,wein bridge oscillator,colpitts oscillator and Hartley oscillator	07		Chalk & duster method & google classroom
	Chp-2Opamp-introduction and schematic symbol and ac analysis ,bandwidth of an opamp ,slew rate , frequency response and negative feedback of an opamp, inverting and non inverting amplifier,voltage follower ,summing amplifier and it's applications, integrator and differentiator	08		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper -II (Physics –I vector calculus ,analog electronics), Unit-I	1.line ,surface & volume integral, the fundamental theorem of calculus ,the fundamental theorem of gradient ,the fundamental theorem of curl, fundamental theorem of divergence	05	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture &chalk method
	Problems of chapter-I	05	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method
	2.Cylindrical & spherical coordinates & problems	04	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method
			Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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NAMEOFTHESTAFF: Anushita A. Moger. DEPARTMENT: Physics CLASS: T.Y.B.Sc. SEMESTER:5

MONTH: June-September ACADEMICYEAR:2020-21

LEARNING OBJECTIVE/S:
The learners will be able to:

1)understand the laws of electrodynamics & be able to perform calculations using them.

2)Understand Maxwell's electrodynamics & Its relation to relativity.

3)Understand how optical laws can be derived from electromagnetic principles.

4)Develop quantitative problem-solving skills.

PAPER, UNIT,TITLE	SUBTOPICS	NOOFLECTURES ALLOTED	REFERENCE/S	TEACHINGMETHOD/ICTTOOLSUSED
Phy-4.(unit -3) electrodynamics	Magnetism and varying fields-diamagnet,paramagnet and ferromagnetism, magnetisation,bound currents and their physical interpretation,ampere's law in magnetised material,deceptive equation in matter and boundary conditions, electrodynamics before Maxwell,Maxwell's correction to ampere's law,Maxwell equation in matter and it's boundary conditions and magnetic charge	15		Chalk & duster method & google classroom
Phy-4(unit-4) electrodynamics				

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	Electromagnetic waves, continuity equation,poynting theorem,Newton's third law,wave equation for electric and magnetic fields, monochromatic plane waves, energy and momentum in electromagnetic waves, propagation in linear media,reflection and transmission of electromagnetic waves at normal incidence.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-IV, U-I, Electrodynamics	1. Electrostatics: Field lines,flux and Gauss law,The divergence of E,application of Gauss law,The curl of E.	07	1. David J. Griffiths; Introduction to Electrodynamics	Lecture Method /Chalk & Board
	2.Poisson’s equation and Laplace equation,The potential of localized charge distribution,first uniqueness theorem.	03		
	3. The classic image problem,Infinite conducting plane.	05		

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A. Moger. DEPARTMENT: Physics CLASS:FYBSc SEMESTER:2

MONTH: December-February ACADEMICYEAR:2022-23

LEARNINGOBJECTIVE/S:

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The learners will be able to:

1)the basic mathematical concept and applications of them in physical situation.

2)demonstrate quantitative problem solving skills in all the topics covered.

PAPER, UNIT,TITLE	SUBTOPICS	NOOFLECTURES ALLOTED	REFERENCE/S	TEACHINGMETHOD/ICTTOOLSUSED
Phy-1(unit-1) electrodynamics	Chp-1 vectors,scalars,vector algebra and it's laws,scalar and vector field and problems based on them,cross product,dot product, commutative and distributive laws,scalar and vector triple products.	07		Chalk & duster method & google classroom
	Chp-2 Gradient, curl and divergence,their significance, distributive laws for all the three terms,problems based on them.	08		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A.Moger. DEPARTMENT: Physics CLASS: S.Y.B.Sc. SEMESTER:4

MONTH: November-February ACADEMICYEAR:2022-23

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

LEARNING OBJECTIVE/S:
The learners will be able to:

1) understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in physics.

2)todemonstratequantitativeproblemsolvingskillsinallthetopicscovered.

PAPER, UNIT,TITLE	**SUBTOPICS**	**NOOFLECTURES ALLOTED**	**REFERENCE/S**	**TEACHINGMETHOD/ICTTOOLSUSED**
Phy-2(unit-1) quantum mechanics	Schrodinger's wave equation,concept of wave function ,Born interpretation of wave function, position, momentum and energy operators,eigen value equation , expectation value of operators, postulates of quantum mechanics,analogy between wave and Schrodinger's equation,STDE and STIE ,superposition principle, probability current density ,equation of continuity and it's physical interpretation.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A. Moger. DEPARTMENT:Physics CLASS: T.Y.B.Sc. SEMESTER:6

MONTH: November-February ACADEMICYEAR:2022-23

LEARNING OBJECTIVE/S:
1)understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result.

2)the importance postulates of special relativity, Lorenz transformation equations and how it changed the way we look at space and time

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

, Absolute time and relativity, Commonsense versus Einstein concept of Space and time.

3)Understand the transformation equations for: Space and time, velocity, frequency, mass, momentum ,force ,Energy, Charge and current density, electric and magnetic fields.

PAPER, UNIT,TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
Phy 4(unit-1) relativity	Special theory of relativistic kinematics,experimental background of special theory of relativity,Galilean transformation,Newtonian relativity, electromagnetism and Newtonian relativity, attempt to locate absolute frame, Michelson Morley experiment, attempt to preserve the concept of a ether frame,lorentz Fitzgerald contractions and ether drag hypothesis, attempt to modify electrodynamics,postulates of special theory of relativity.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

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DEPARTMENT OF FILM, TELEVISION AND NEW MEDIA PRODUCTION
5.3. TEACHING PLAN (UNIT PLAN) 2022-23

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **EFFECTIVE COMMUNICATION SKILLS**

LEARNING OBJECTIVE/S: To prepare students in the production aspects of Film Television & New Media, as required by the present media environment all across globe. To empower the students in the production and managerial aspects of the media business with due emphasis on latest production techniques, along with marketing and branding management of various media products and associated services. To develop creative temperament and mindset needed in the content production segment of media industry. To provide an active industry interface by way of co-learning.

<table>
<tr><th>PAPER, UNIT, TITLE</th><th>SUBTOPICS</th><th>NO OF LECTURES
ALLOTED</th><th>REFERENCE/S</th><th>TEACHING METHOD/ ICT TOOLS USED</th></tr>
<tr><td>Unit- I</td><td>Fundamentals of Communication: Developing reading & writing skills (Marathi, Hindi and English), Editing & Summarizing (Marathi, Hindi and English), Oral Communication (Marathi, Hindi and English)</td><td>3</td><td rowspan="3">Textbooks:
1. Crucial Conversations: Tools for Talking When Stakes are High , by Kerry Patterson.
2. Presenting to Win: The Art of Telling Your Story, by Jerry Weissman.
Reference Books:
1. Verbal Judo: The Gentle Art of Persuasion, by George J. Thompson.
2. Write to the Top: Writing for Corporate Success,</td><td>Theory, project and assignments
PPT etc</td></tr>
<tr><td>Unit- II</td><td>Enhanced Communication Skills Development: Enhancing communication skills – verbal, Enhancing communication skills - non-verbal, Body type- posture- body language reading, Analysing body language signals and meanings</td><td>3</td><td>Theory, project and assignments PPT etc</td></tr>
<tr><td>Unit- III</td><td>Psychology of communication:</td><td>3</td><td>Theory, project and</td></tr>
</table>

	Gestures- expressions - facial language, eye contact, shake hands, sitting posture, Maintaining comfort distance from people, mirroring, Dressing sense, corporate dressing, formal, semi formal, casual, dressing for various occasions & events, Understanding personalities - auditory / visuals / kinesthetic, eye movement, facial expressions, emotions, smile		by Deborah Dumaine.	assignments PPT etc
Unit- IV	Personality Development: Verbal communication, voice training, speech, clarity, grammar speed, volume, enunciation, pronunciation, ends of sentences, humour, pauses, Stress management, breathing pattern, mind psyching, right attitude, understanding your limitations and strengths, Table manners & etiquettes correct use of spoon knife, etc, Choosing the right accessories i.e shoes, handbags, jewellery, etc.	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **GAURI PATIL**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTRODUCTION TO HISTORY OF ART/ STORYTELLING THROUGH OTHER FORMS OF ART**

LEARNING OBJECTIVE/S: To understand the basics and genres of Music, dance and theatre.
To learn the basics of various acting schools and the art of drama.
To learn the evolution of visual techniques from painting to cinema.
To learn the basic relationship between music and dance in relation to Film making.
Students should be exposed to the canonical text of Natya shastra from where all the traditional performing arts have emerged.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Music : Genres of Music, Introduction to Contemporary Music (Hindi, Regional & POP), Music Directors & Composers, Use of Folk music in Indian Cinema	3	Textbooks: 1) Natya Shastra by Bharata Muni. 2) Melodrama and Popular Culture: Ira Bhaskar. 3) History of Art – Bernard.S. Myers, Trawin Copplestone. 4) Framing Film- Cinema and the Visual Arts, EDITED BY STEVEN ALLEN AND LAURA HUBNER. Reference Books: 1. Dancing: The Pleasure, Power, and Art of Movement; by Gerald Jonas. Harry N. Abrams in association with	Theory, project and assignments PPT etc
Unit- II	Genres of Dance – Understanding storytelling through Folk Dance & Contemporary Dance, Role of Dance in Hindi Cinema	3		Theory, project and assignments PPT etc
Unit- III	The development of theatre, Acting Schools, Make-up, Managing Play, Study of one English and one Hindi or regional play. Influence of theatre on cinema.	3		Theory, project and assignments PPT etc
Unit- IV	1. European Paintings and Painters- A brief overview starting from the renaissance to modern painters. Idea of Perspective coming into painting and changing	3		Theory, project and assignments PPT etc

	the way we perceive the world 2. Indian Paintings & Painters- A look at the rich historical tradition of Indian PaintingsMiniature Paintings to Modern Painters. Difference between the formal aspects of Painting & Cinema. Exploring the idea of time and space in painting in relation to cinema 3. Important Movements- Analysing the important movements that have taken place in postcolonial India in painting to the contemporary scenario.		Thirteen/WNET 1992. 2. History of Dance: An Interactive Arts Approach; by Gayle Kassing.	

NAME OF THE STAFF: **SAMEER RANE**

DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INITIATION TO LITERATURE & CREATIVE WRITING**

LEARNING OBJECTIVE/S: To introduce basic tenets of Indian literature including regional literature
To introduce and appreciate various forms of literature (Novel, Poetry, Drama, Essay)
To help build skills for creative writing
To help understand the structure of Story, poetry and drama
To introduce writing for internet

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Introduction to Indian Writers – Hindi/Marathi/Urdu & other regional languages: History of Indian literature, prominent writes, important works, cultural significance.	3	Textbooks: 1.) A Concise History of Indian Literature in English by Arvind Mehrotra. 2) The Creative Writing Course book: Forty Authors Share Advice and Exercises for Fiction and Poetry. 3) Creative Writing By Adele Ramet. 4) Creative Writing for People Who Can't Not Write By Kathryn Lindskoog. Reference Books: 1. Creative Writing: A Workbook with Readings By Linda Anderson. 2. Teaching Creative Writing By Graeme Harper. 3. The Everything Creative Writing	Theory, project and assignments PPT etc
Unit- II	A Brief Introduction to Creative Writing: What is creative writing, various forms of writing, various form of writing styles, how to build creative writing skills.	3		Theory, project and assignments PPT etc
Unit- III	Formal structure of the short story: Various forms of writing styles, Genres of story, how to develop an engaging idea, Prominent writers, Pick your style.	3		Theory, project and assignments PPT etc
Unit- IV	Formal aspects of Poetry: Elements of poetry, types of Poetry, Difference between various styles, Famous poets and their works, Study of the Epic Ballad - Mahabharata.	3		Theory, project and assignments PPT etc

			Book By Wendy Burt-Thomas. 4. The Soul of Creative Writing By Richard Goodman, Goodman, Chong.	
Unit- V	Formal aspects of Drama: Structure of drama, one act-two act-three act play, Characterization, Freytag's triangle, Subject specific drama	3		Theory, project and assignments PPT etc
Unit- VI	Writing for the internet: How internet writing is different from conventional writing, Blogging, Reputation management, Development of Blogs, writing for social media, writing for SEO & SMO	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **K. SUDHESH**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF PHOTOGRAPHY**

LEARNING OBJECTIVE/S: To learn the basics of art of Photography.
To understand the basic intricacies involved in taking a photograph.
To understand what makes a good picture.
To develop basic photographic sense and knowledge.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Development of Photography over the years: Brief History of Photography, early photography methods, switch from film to digital, difference between film and digital photography, formats of images in digital.	3	Textbooks: 1. The Art of Photography; by Bruce Barnbaum. 2. Creative Nature & Outdoor Photography; Brenda Tharp. 3. Chasing the Light by Ibarionex Perello. Reference Books: 1. The Camera by Larry Hills. 2. The Creative Black Book. 3. The Print by Ansel Adams, Robert Baker. 4. 500 poses for Photographing Women by Michelle Perkins. 5. Creative Landscapes: Digital Photography Tips & Techniques by Author: Davis, Harold.	Theory, Practical project and assignments PPT etc
Unit- II	Cameras & Techniques: Types of camera, film cameras V/S digital cameras, lenses and their importance, Story Design and Development, Laws of Composition, Gestalt Law and Visual Perception, Semiotic photography.	3		Theory, Practical project and assignments PPT etc
Unit- III	Lighting - Theory & practice: Sources of Lighting, 2 point lighting, 3 point lighting, creating contrast, outdoor natural lighting, related accessories for lighting.	3		Theory, Practical project and assignments PPT etc
Unit- IV	Post production of Photos, Digital Image Editing – Photoshop: Processing of Raw images, Introduction to	3		Theory, Practical project and

	Adobe Photoshop and image ready software, how to enhance the photo digitally.			assignments PPT etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **FILM APPRECIATION – GENRES**

LEARNING OBJECTIVE/S: What is cinema, Film theory – form and function, Film analysis, Auteur Theory,
effect of auteur, Contributions of D W, Griffith, Alfred Hitchcock, Jean Du Godard, Digital Aesthetics, Music and choreography, film genre.
Cinema and society, History of Cinema, Hollywood cinema, early cinema and film form
the studio system, rise and decline of the studio system.
Indian Cinema
History of Indian cinema, history of regional cinema, legends of Indian cinema, Hindi film industry, the Hindi film industry, music and choreography in Indian cinema, contemporary cinema

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	What is cinema, Film theory – form and function, Film analysis, Auteur Theory, effect of auteur, Contributions of D W, Griffith, Alfred Hitchcock, Jean Du Godard	3	Textbooks : 1) The Oxford History of World Cinema. 2) The Cinematic ImagiNation : Indian Popular Films as Social History by Jyotika Virdi. 3) History of Indian Cinema by Renu Saran.	Theory, project and assignments PPT etc
Unit- II	Music and choreography, film genre. Cinema and society, History of Cinema, Hollywood cinema, early cinema and film form the studio system, rise and decline of the studio system.	3		Theory, project and assignments PPT etc
Unit- III	History of Indian cinema, history of regional cinema,	3		Theory, project and assignments

	legends of Indian cinema, Hindi film industry, the Hindi film industry			PPT etc
Unit- IV	music and choreography in Indian cinema, contemporary cinema	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **GRAPHIC DESIGNING (PHOTOSHOP, ILLUSTRATOR, ETC.)**

LEARNING OBJECTIVE/S: The learners are exposed to the industry of graphic design. The domain of skills and tools is largely devoted to learning graphic reproduction methods using both modern, that is electronic,
as well as old school techniques. These inputs enable learners to solve simple problems of visual communication related to corporate identity or social communication. Learners use software like Adobe Photoshop and Adobe Illustrator.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	COLOUR THEORY : Colour psychology, Colour schemes, Colour wheel, Colour combination, Hue.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- II	PERSPECTIVE STUDY : 1-point perspective, 2-point perspective, 3-point perspective, Mixed perspective.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- III	STILL LIFE : Sketching & rendering, Light study, Photography.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- IV	TEXTURE STUDY : Texture creation, mixed media, Water/Pastel painting.	1		Theory, Software (Adobe illustration, photoshop) project and assignments

				PPT etc
Unit- V	PORTRAIT PAINTING : Portrait Caricature, Cartoon.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit-VI	PHOTOSHOP : Basic tools in Photoshop, Photo editing, Colour correction.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- VII	ILLUSTRATOR : Basic tools in Illustrator, Vector graphics, Graphics design.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- VIII	COMIC BOOKS : Understanding storyboards, Styles of contemporary comics, Colour tones.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- IX	COMPOSITION : Basic composition skills, Rule of thirds, Understanding of subject and its relation to light and depth of field, Application in comic books.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- X	TYPOGRAPHY : Understanding of typos & fonts, Application of	1		Theory, Software (Adobe illustration, photoshop)

	appropriate typos on art works.			project and assignments PPT etc

NAME OF THE STAFF: **SALONI AKIWATE, JAVED SAYYED**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF POST PRODUCTION**

LEARNING OBJECTIVE/S: An editor's job is to decide, 24/25/30 times a second, where the audience needs to be. Do we
stay in a shot or transition to another, and if so, what shot and how do we get there? Working side-by-side with the director to craft the movie that ultimately hits the screen – or your phone – editing is really about manipulating the audience, in the best possible way, all in the service of storytelling.
In this class, we will study terminology and concepts, learning both the rules and how to break them, as we look at the aesthetics choices and the technological workflow for both picture and sound editing. We will examine the historical role of editing, from the earliest silent film through the digital revolution that has transformed moviemaking today.
INTRO TO EDITING THEORY
Introduction to the history of film editing. Lumiere Brothers, Thomas Edison, Edwin Porter, DW Griffith); the manipulation of editing; Lev Kuleshov's experiment; the language of cinema;
introduction to the editor as storyteller and understanding the narrative structure.
INTRO TO PREMIERE PRO
Screening of Examples. The Premiere Pro interface features and functions, how to import and organize footage, basic editing techniques
EDITING EXERCISE
Watch the work of a Master Editor, Basic Production techniques, Practicing/Reviewing skills
PROJECT: Interview and Film a classmate telling a story for 10 minutes or talking about something they're excited about. Edit together a two minute version of this.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Effective Editing Bird's-eye view of the modern process of editing, Setting Up for Editing Efficient editing habits to work faster, Thinking creatively. Efficient workflow, Configure factory-standard systems, Optimal media management from ingest through to	4	Grammar of the Edit Roy Thompson, Christopher J. Bowen SUGGESTED TEXTS: Film Art: An Introduction, David Bordwell and Kristin Thompson The Invisible Cut: How Editors Make Movie Magic, Bobbie O'Steen	Theory, Software (Adobe Premiere pro) project and assignments PPT etc

<table>
<tr><td></td><td>final output. Non Linear

Editing Concepts Interface of NLE system, The Three-Point Edit, Additional Edits</td><td></td><td rowspan="3">Cut By Cut: Editing Your Film or Video, Gael Chandler
In the Blink of an Eye: A Perspective on Film Editing, Walter Murch
The History of Film Editing, Karel Reisz, Gavin Miller
On Film Editing, Edward Dmytrk
Film Editing: Great Cuts Every Filmmaker Should Know, Gael Chandler
First Cut: Conversations with Film Editors, Gabriella Oldham</td><td></td></tr>
<tr><td>Unit- II</td><td>Working in the Timeline, Transitions, Keyframing, Filters, Ingesting</td><td>4</td><td>Theory, Software (Adobe Premiere pro) project and assignments

PPT etc</td></tr>
<tr><td>Unit- III</td><td>Compositing, Color Correction, Audio, Titling, Review and Look Forward</td><td>4</td><td>Theory, Software (Adobe Premiere pro) project and assignments

PPT etc</td></tr>
</table>

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **HISTORY OF NON- FICTION FILM**

LEARNING OBJECTIVE/S: This course explores the history and theory of non-fiction film and video, with an emphasis on
work that falls under the rubric of "documentary."
Documentary is a unique form of non-fiction moving image media that claims a special relationship to reality and truth. Through screenings, readings and class discussion, we will explore such questions as:
• How does documentary relate to narrative fiction filmmaking? To other non-fiction forms of television like reality TV or news reports?
• How "real" are documentary representations, and how much does it matter?
• What are some different formal approaches documentary, and how does each mediate the representation of real life it offers?
• How has documentary image-making changed over time? What can we learn from this history that is relevant to media-making today?
• What are the particular ethics of representing others in a medium like video or film?
• What responsibility do documentarians have to their subjects, to the form, and to society at large?
• How do people watch documentaries, and what is the impact of these films on the world they aim to represent?
Be familiar with efforts to create more democratic systems of media production and distribution.
Learn how to watch earlier films both as an audience THEN (with understanding of the film's social, cultural, historical context), and NOW (with understanding of your own future goals and
with critical, analytical eyes to study history).
Be able to think – and write — critically about non-fiction media.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Screen and analyze a wide range of documentaries, exploring the genre as narrative, journalism, propaganda, rhetoric, activism, diary, art, archive, and entertainment. Course Objectives	4	The texts for this class Documentary: A History of the Non-Fiction Film (2nd Edition) by Erik Barnouw (available at Shakespeare and Co) and Crafting Truth: Documentary Form and	Theory, project and assignments, Screenings (T.V.) PPT etc

	By the end of the semester, you should: Be familiar with key periods in the history of non-fiction film and video from 1895 to the present. Be able to recognize and write about various forms and conventions of documentary storytelling, including the basic grammar of documentary moving images.		Meaning, by Louise Spence and Vinicius Navarro (available at Shakespeare and Co.). Additional readings will be available through e-res. As some readings will be accessed electronically, please bring either a printed version of the article (preferred) OR a digital version of the article to class.	
	Explore central questions surrounding the representation of reality and truth, including voice, authority, evidence and point of view. Explore key issues in the ethics of documentary representation, including maker-subject relationships, informed consent, fairness, and evidence.	4		Theory, project and assignments, Screenings (T.V.) PPT etc
2	Be familiar with efforts to create more democratic systems of media production and distribution. Learn how to watch earlier films both as an audience THEN	4		Theory, project and assignments, Screenings (T.V.) PPT etc

	(with understanding of the film's social, cultural, historical context), and NOW (with understanding of your own future goals and with critical, analytical eyes to study history).			
3	Be able to think – and write — critically about non-fiction media.			Theory, project and assignments, Screenings (T.V.) PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **WRITING FOR VISUAL MEDIA**

LEARNING OBJECTIVE/S: To understand the basic structure of screenplay
To introduce to the basic skills for screen writing
To understand the intricacies of screen writing
To learn the build characters and write meaning full dialogues

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Preparing to Think Visually: Diving In to the Screenwriter's Mind, Approaching Screenwriting as a Craft, Breaking Down the Elements of a Story, Unpacking Your Idea	3	Textbooks: 1. How not to write a screenplay: 101 common mistakes most screenwriters make by Denny Martin Flinn 2. Screen Adaptation: A Scriptwriting Handbook by Kenneth Portnoy 3. Screenplay: The Foundations Of Screenwriting By Syd Field Reference Books: 1. The Screenwriter's Bible By David Trottier 2. The Bare Bones Book of Screenwriting: The Definitive Beginner's Guide to ... By J. T. Clark 3. Screenwriting for a Global Market: Selling Your Scripts from Hollywood to ... By Andrew Horton	Theory, project and assignments, PPT etc
Unit- II	Structure of Story & Screenplay: Plot Part I: Beginnings, Plot Part II: Middles, Plot Part III: Endings	3		Theory, project and assignments, PPT etc
Unit- III	Dynamics of Characterization: Character Building, Constructing Dynamic Dialogues, Non – traditional Film	3		Theory, project and assignments, PPT etc
Unit- IV	Finalizing the Script: Maintaining an Audience's Trust, Turning Your Story into a Script, Take Two: Rewriting Your Script, Adaptation and Collaboration: Two	3		Theory, project and assignments, PPT etc

	Alternate Ways to Work		4. Screenwriting For Dummies By Laura Schellhardt 5. Screenwriting: The Sequence Approach By Paul Joseph Gulino 6. The Tools of Screenwriting By David Howard, Edward Mabley 7. The Art of Screenwriting: An A to Z Guide to Writing a Successful Screenplay By William Packard 8. Writing the Character-Centered Screenplay By Andrew Horton	

NAME OF THE STAFF: **MAYUR PATEL**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **IMPORTANCE OF SOUND AND SOUND SFX**

LEARNING OBJECTIVE/S: To learn about the basic of sound |To understand the nature of sound and recording devices |
To learn the basics of sync sound, mixing console, analog v/s digital workflow | To understand the need for sound and importance of sound in film | To learn to record a song

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Basics of Sound: Nature of acoustical waves; concepts of amplitude and frequency -wavelength and harmonics. Psycho-acoustics: Nature of hearing and perception of sound, including concepts of pitch, loudness, and timbre; the precedence effect; localization in rooms; equal loudness contours; and other mysteries of hearing. Principles of Stereophony	2	Textbooks: 1. Pro Tools 9: Music Production, Recording, Editing and Mixing By Mike Collins 2. Pro Tools All-in-One Desk Reference For Dummies By Jeff Strong 3. Sound for Film and Television By Tomlinson Holman Reference Books: 1. Sound For Digital Video By Tomlinson Holman 2. Producing for TV And Video: A Real-world Approach By Cathrine Kellison 3. Sound for picture: an inside look at audio production for film and television By Jeff Forlenza, Terri Stone 4. Audio in Media By Stanley R. Alten 5. Master Handbook of	Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- II	Sound for Film and Video: The sound track – its importance in an AV medium, Different elements of a sound track, Explanation of how sound is put to the film	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc

Unit- III	Sync Sound: The size of the role sound should play in your film will vary depending on your professor's requests, but when it comes to the technical side of things, you are at least required to know how to achieve synchronized sound and picture with film. Interconnectivity of Analog & Digital Equipment: Basic analog connectors, cabling, patch – bay, interconnectivity between various recording studio equipment. Various Digital interconnects and their sockets on the digital equipment. Microphones Types: Dynamic, Condenser, Ribbon, Polar Pattern, Sensitivity. Microphone designs for special applications Acoustics I (Fundamentals): The behavior of sound in outdoors and in closed spaces; Absorption, reflection, diffraction, refraction, reverberation.	2	AcousticsByF.Alton Everest 6. Modern Recording Techniques By David Miles Huber 7. Mastering Audio By Bob Katz 8. Mixing Audio By Roey Izhaki 9. Practical Recording Techniques By Jenny Bartlett 10. Critical Listening Skills for Audio Professionals By F.Alton Everest 11. The Audible Past By Jonathan Sterne	Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc

Unit- IV	The signal flow and various auxiliary systems. Digital Audio: Analog to Digital to Analog conversion. Sampling Frequency, Bit Rates. Problems in digital audio. Different digital media, Standard digital recording & mastering formats. Audio file formats, storage mediums – optical, magnetic, Jitter etc. Computers in Audio: Different platforms – different operating systems, Configuration of a PC for sound recording. Mother Boards, Processor, Sound Card, Graphic card, Monitors Recorders: Analog, Digital, Tape Based & Tapeless. Digital Audio Workstations (DAW's)	3		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- V	– Film Showcase: Case studies of famous Indian as well as foreign films	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- VI	Microphone Techniques: Placement, Applications, Proximity effects	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and

	etc. microphones and placement techniques for stereo recording. Monitoring Systems: Active & Passive types, Domestic and professional listening environment, Stereo and surround monitoring.			Audacity software etc
Unit- VII	The Production Process of a Song: Music Basics. – Types of Music, Concepts of Melody, Harmony, Rhythm & counter melody etc. Format of a song. Preproduction, Tracking, Overdubbing, Editing, Mixing and Mastering. Processors: Theory of Tonal, Dynamic & Spatial processors. Equalizers – types and their application, Compressors & Limiters - theory and application, Effects processors - Reverberation and Delay devices and their plug in counterparts.	3		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- VIII	Location sound , Radio mics - uses and potential	3		Theory, project and assignments, Screenings

	difficulties. Boom operation for sync sound, Hands-on training in location sound recording for video. Nuendo Basic: Basic principles, understanding the process from initial set up to completion of a project. To set up for a vocal/instruments dub. Hands-on training - You will share a Nuendo workstation during the class. Principles of Mixing: The basic techniques of mixing and the fundamental approach. The Building Blocks of Mixing Setting the sound stage, and the sonic implications of panning and of placing instruments at varying distances from the listener; Consideration of different approaches to getting desired results from EQ; A comprehensive review of the uses of dynamic processor; on Individual channels and Mix master. Finishing a mix with automation.			(T.V.) PPT, Protool and Audacity software etc

	"Mixing in the box." And “Mixing through the board.” Production of the Sound Track for the student project film: Discussing sound design strategy with the director of the film at pre production stage. Attending film sync shoots. Video File formats, Acquiring picture for post production from edit suite. Dubbing the dialogues wherever necessary, Selecting SFX and BG music from the library, recording Foley and music as per the demand of the script. Mixing the final track. Export it to the editor, supervise the final assembly of the film.			

NAME OF THE STAFF: **VIRAJ SHINDE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF CINEMATOGRAPHY-1**

LEARNING OBJECTIVE/S: To understand the importance of cinematography in film making | To enhance the basic knowledge about lighting and its use | To understand various equipment's required for various form of lighting | To understand the basics of various camera, lenses and digital cinematography

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Power of a Picture: Power of a still picture | Shooting a good Still picture | Composition-Framing | Understanding & Use of color | Capturing the Drama | Black and white Photography;	4	Textbooks: 1. Camera Terms and Concepts by David Elkins 2. The Camera Assistant by Doug Hart 3. Motion Picture Camera and Lighting Equipment by David Samuelson Reference Books: 1. Motion Picture Camera Techniques by David Samuelson 2. The 16mm Camera Book by Douglas Underdahl 3. The Hands On Manual for Cinematographers by David Samuelson 4. The Professional Lighting Handbook by Verne Carlson 5. The Filmmakers Pocket Reference by Blain Brown	Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- II	Light: Role of light | Lighting techniques | Concept of lighting various planes | Understanding Various types: Tungsten lamps, Cool Lights, HMI, Cyclorama/background lights, Soft Box lights. | Use of cutter stand, black cloth and Camera filters | barn doors | use of reflectors | Three point lighting | Ratio lighting: 1:2, 1:3, 1:4 | Creating various Background patterns and types | Lighting – Situations | Studio lighting for three cameras set up: Talk Show, Game Show	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	| Available day light situations | Shooting for Documentary style | Face lighting. Key, fill, back light | Depth of field Exercise | High key lighting | Low key lighting;		6. American Cinematographer ASC Manual 47. The Zone System for Photographers by Carson Graves 8. Cinematography: Screen craft by Peter Ettedgui 9. Contemporary Cinematographers-On Their Art by Pauline Rodgers 10. Operating Cinematography for Film and Video by William Hines 11. Cinematography-A Guide for Filmmakers and Film Teachers by Kris Mankiewicz 12. Film Lighting: Talks with Hollywood's Cinematographers and Gaffers by Kris Malkiewicz 13. The Five C's of Cinematography: Motion Picture Filming Techniques by Joseph V. Mascali 14. The Art of the Cinematographer: A Survey and Interviews with Five Masters by Leonard Maltin 15. Anton Wilson's Cinema Workshop by Anton Wilson 16. Image Control-Motion Picture and Video Camera Filters and Lab	
Unit- III	–Lenses: Type of Lenses | Power of Lenses | Understanding the shot requirement and usage of a lens | Idea of perspective: Depth Of Field, Depth of focus, Critical understanding of Fixed Lens Vs. Zoom Lens | Focus pulling | 18% grey card | Metering | Color temperature meter;	3		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	Movements: Basic grammar of shots | Primary Camera Movement: Pan, Tilt, Zoom, Character Movement | Usage and need of Track and trolly, Crane, jimy gip, Poll Cam | Managing Movements | Single camera Setup | Multi camera setup | Continuity Exercise | Do’s and don’ts of camera movements | Aesthetics and Psychological Impact of Moving Images | Various parts of Motion picture cameras | Moving Image-Motion Picture | Impact of collective moving	3		Theory, project and assignments, Screenings (T.V.) PPT, etc

	Images | Motion Picture Dynamics;		Techniques by Gerald Hirschfeld 17. Lighting for Film and Electronic Cinematography by John David Viera and Dave Viera 18. Painting with Light by John Alton 19. Picture Composition for Film and Television by Peter Ward 20. Matters of Light and Depth-Creating Memorable Images for Video, Film and Stills Through Lighting by Ross Lowell 21. Lighting Technology by Fitt and Thornley Set Lighting Technician's Handbook by Harry C. Box 22. Digital Cinematography by Ben De Leeuw 23. If It's Purple, Someone's Gonna Die: The Power Of Color In Visual Storytelling By Patti Bellantoni 24. High Definition Cinematography By Paul Wheeler	
Unit- V	Understanding digital video recording Principle of video recording | Digital Recording Formats | Editing and compression | Digital			Theory, project and assignments, Screenings (T.V.) PPT, etc

	sampling and storage | Technical formats of video- PAL, NTSC | "Time Code" in Video Recording | Film Stock and Processing			

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: PRACTICAL FILM MAKING 1 (ONLY NON-FICTION FILM)**

LEARNING OBJECTIVE/S: To understand the film making process for multiple locations in non-fiction films
To understand the entire workflow
To gain exposure on various cameras and software used for production
The students will undergo the process of making a non-fiction film.
The students will be exposed to Semi-professional camera cameras & software. The students will also undergo same basic exercises such as 3 shot and 6 shot to give them a basic sense of framing, composition, movement and editing. The final project will be a non-fiction film with the duration of 5-10 minutes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: INTRODUCTION TO DIRECTION FOR TELEVISION**

LEARNING OBJECTIVE/S: 1. Understanding of the process of Direction for Television
2. Theoretical framework and practical approach to Direction
3. Creating Ads for various categories

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Understanding Television Culture & Semiotics. Understanding Space & Time, Ideology, Aesthetics, Stylistics & Setting. Construction: mise-en-scene & technical codes -1 Writing For Television: Research, Ideation and Conceptualization, Understanding The IV Act Structure for TV, Elements of a TV Program Constructing a plot w.r.t a family tree for serials. Constructing Character biography Writing for Humour Popular Indian TV Discourse- eg.: Aahat (Horror), Daily Soap (any) & Tarak Mehta (comedy) Syntagmatic & Paradigmatic analysis Polysemy Popular TV Discourse- Friends	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	Principles of Affinity & Contrast Director's Role in Television Inter-textuality & Role and Impression of Women Exploring Non-fiction Reality TV Exploring Non-fiction AD Filmmaking -1 Linear Motif in TV Creating content for TV- Directing for a Webisode			
Unit- II	The course aims to develop the sensibilities and sensitivities of the taught to comprehend the process of direction for television that entails understanding and analysis of different genres of television.	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- III	The learning includes understanding the television medium vis-à-vis the film, ideating, plotting and writing for different genres followed by inspecting the Director's role. Analysing the present day scenario. Experimenting by devising for short versions.	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	The sessions could be designed to give a thorough understanding of both – theory as well as practical's. All lectures will be in the form of interactive sessions and it is expected that the	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	student reads/watches television as directed before attending lectures.			

NAME OF THE STAFF: **ANURAG TAKKE, JAIVEER ARORA, PALAK SHAH**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: BASICS OF CINEMATOGRAPHY-2**

LEARNING OBJECTIVE/S: To understand the basic structure of film and digital camera | To enhance the basic knowledge about lighting and its use | To understand various equipment's required for various form of mood lighting | To understand basics of various digital cameras, lenses and digital cinematography | To learn the basics of special effects cinematography |To understand the needs of co-creators

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	– Structure of Film and Digital Camera: Understanding the internal structure of camera | perforation loop | pressure plate | Pull down claw | Magazine: Types of magazine | Threading of film | Intermittent Movement | Analysis of Claw motion | Registration pin | Sprocket wheel | Frames per sec | Camera Motors | Slow motion and Fast motion | Reverse Movement | Lens Mount Flange Depth | Magazine Cover/rain cover | Digital Process of Image capturing | Latitude of film Camera format | Latitude of digital	4	Textbooks: 1. Camera Terms and Concepts by David Elkins 2. The Camera Assistant by Doug Hart 3. Motion Picture Camera and Lighting Equipment by David Samuelson Reference Books: 1. Motion Picture Camera Techniques by David Samuelson 2. The 16mm Camera Book by Douglas Underdahl 3. The Hands On Manual for Cinematographers by David Samuelson 4. The Professional Lighting Handbook by Verne Carlson 5. The Filmmakers Pocket Reference by Blain Brown 6. American Cinematographer ASC Manual	Theory, project and assignments, Screenings (T.V.) PPT, etc

	format | Shooting Format-16-mm/35-mm/70-mm/super.16/I-max/3-D | Convenience of Digital format | The Future of Film Formats		7. The Zone System for Photographers by Carson Graves 8. Cinematography: Screen craft by Peter Ettedgui 9. Contemporary Cinematographers-On Their Art by Pauline Rodgers 10. Operating Cinematography for Film and Video by William Hines 11. Cinematography-A Guide for Filmmakers and Film Teachers by Kris Mankiewicz 12. Film Lighting: Talks with Hollywood's Cinematographers and Gaffers by Kris Malkiewicz 13. The Five C's of Cinematography: Motion Picture Filming Techniques by Joseph V. Mascali 14. The Art of the Cinematographer: A Survey and Interviews with Five Masters by Leonard Maltin 15. Anton Wilson's Cinema Workshop by Anton Wilson 16. Image Control-Motion Picture and Video Camera Filters and Lab Techniques by Gerald Hirschfeld 17. Lighting for Film and Electronic Cinematography by	
Unit- II	– Special Effects and Cinematography: Chrome key Concept | Preparation for chrome key | Compositing a digital Picture | Digital matte painting;	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- III	Mood Lighting & Colour Lighting Theory & Practice: Red, Blue, Green , Purple & Orange lights and Treatments for Various Scenes | Colour and Cultural;	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	Image formation (Understanding requirements of a director): Understanding a Screenplay writing | Writing for visuals-STORY BOARDING | Capturing the drama on the camera | How to create packets of emotional experience-Scene | Creation of Drama-Ingredients of a Drama;	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

			John David Viera and Dave Viera 18. Painting with Light by John Alton 19. Picture Composition for Film and Television by Peter Ward 20. Matters of Light and Depth-Creating Memorable Images for Video, Film and Stills Through Lighting by Ross Lowell 21. Lighting Technology by Fitt and Thornley Set Lighting Technician's Handbook by Harry C. Box 22. Digital Cinematography by Ben De Leeuw 23. If It's Purple, Someone's Gonna Die: The Power Of Color In Visual Storytelling By Patti Bellantoni 24. High Definition Cinematography By Paul Wheeler	
Unit- V	– Understanding the needs of Co-creators (Director, Editor, Sound Recordist...) Working in team | Team Building | Conflict formation | Conflict Resolution	1		Theory, project and assignments, Screenings (T.V.) PPT, etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **UNDERSTANDING TV FORMATS & GENRES**

LEARNING OBJECTIVE/S: To understand how television programming works | To learn about TRPs and drama creation | To study the impact of niche programming | To learn about various genres of television programming

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Nature of drama in television: Various shows, formats and genres, telecast patterns, audience viewership performance	4	Textbooks: 1. Fundamentals of Film Directing By David K. Irving 2. Writing, Directing, and Producing Documentary Films and Videos By Alan Rosenthal 3. Breaking into Film by Kenna McHugh 4. Before You Shoot : A Guide to Low Budget Film and Video Production by Helen Garvey Reference Books: 1. Film Directing Cinematic Motion: A Workshop for Staging Scenes By Steven Douglas Katz 2. Film Directing Fundamentals: See Your Film Before Shooting By Nicholas T. Proferes 3. Problems Of Film Direction By Sergei Eisenstein	Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- II	– Creating Drama for TRPs: Building the story, herd culture existing in current times, breaking the barriers	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- III	Creating niche television programming: Importance of niche content, niche content channels, producing niche content in wake of DTH connections	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	Differentiation of infotainment, edutainment, entertainment, lifestyle genres: Differentiation of genres, Specialty of different genres,	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	popularity of genres, content on demand, Study of BBC & Discovery, Study of GECs			

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONCEPTS OF STORY BOARDING**

LEARNING OBJECTIVE/S: To understand the need for storyboarding | To learn the fundamentals of shoot taking and division | To understand various storyboarding techniques | To understand the importance of perspective and lighting while storyboarding

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	– Intro to Storyboarding/Visual Story telling & Storyboards: Origins of Story boards and aspect ratio	2	Text Books: 1. Exploring Storyboarding By Wendy Tumminello 2. The Art of the Storyboard: Storyboarding for Film, Tv, and Animation By John Hart 3. Directing the Story By Francis Glebes Reference Books: 1. Beginning Illustration And Storyboarding For Games By Les Pardew 2. Storyboards: Motion In Art By Mark Simon 3. From Word to Image: Storyboarding and the Filmmaking Process By Marcie Beg Leiter 4. Prepare to board! By Nancy Beiman 5. Storyboarding 101: A Crash	Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- II	Fundamentals of Shots: Terminology of Shoots, Camera Framing, Camera Angles and Movements	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- III	Storyboarding Techniques: · Concept- what the story is about, Drawing the components of the storyboard · Indicating motion in the storyboard, Increased reality- perspective and lighting	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- IV	Composition, Perspective & Lighting: Compositional	4		Theory, project and assignments, Drawing sheets, Adobe

	Elements, line-shape-contrast, creating meaning within image, Creation of depth through lens choice and linear, atmospheric and size perspective, High- Key Lighting, Low key Lighting, 3 point Lighting, Tonal quality of lighting.		Course in Professional Storyboarding By James O. Fraioli 6. Writing with pictures: how to write and illustrate children's books By Uri Shulevitz	illustration, Coral draw software, PPT, etc
Unit- V	Continuity: Basic Rules of continuity, 180 – Degree rule, screen direction, Cutaways & Cut-ins	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- VI	– Story Boards for Animations & Special Effects Films: Structure of animation films, Special effects breakdown, creating the environment	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- VII	Story Boarding for Commercials and New Media: Structure of commercials, elements of brand building to be implemented, special colour scheme for brands and products	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc

NAME OF THE STAFF: **BISWARANJAN SWAIN**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: GRAPHICS AND POST PRODUCTION (FLASH, EDITING SOFTWARE, AFTER EFFECTS)**

LEARNING OBJECTIVE/S: Basics of 2D animation, Vector and Raster Graphics, Basic Animation in Flash, Advanced editing
using Flash Elements in the film, Using After Effects, The interface of After Effects, Importing graphics and film, Keyframes, After effects and timeline, Animating using after effects, Compositing

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Basics of 2D animation	4	-	Theory, project and assignments, After effects, Flash software PPT, etc
Unit- II	After Effects	4		Theory, project and assignments, After effects, Flash software PPT, etc
Unit- III	Basic Animation in Flash	4		Theory, project and assignments, After effects, Flash software PPT, etc
Unit- IV	Advanced editing	4		Theory, project and assignments, After effects, Flash software PPT, etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **TV PRODUCTION / AD FILM MAKING**

LEARNING OBJECTIVE/S: To introduce the process of 25 mins Television series making To understand the production pipeline of 25 mins Television series making process | To understand the entire workflow 25 mins Television series making process To gain exposure on various cameras and software used for production of 25 mins Television series making The students will undergo the process of 25 mins Television series. The students will be exposed to professional HD cameras & software and will work on projects ranging from 5Mins-25mins. The students will be exposed to the entire process of film making and the production workflow in television Series. The students can also work on an Ad film for about 60 seconds depending on the kind of TV series they are making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTRODUCTION TO DIRECTION FOR FILM**

LEARNING OBJECTIVE/S: To understand the need for direction in films | To understand the role played by a director | To understand the Qualities required to be a director | To learn how to manage creativity and creative team | To learn about drama and continuity for films | To learn the details involve in the production of a feature films

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	ARTISTIC IDENTITY AND DRAMA: The World of the Film Director, Identifying Your Themes	2	Textbooks: 1. Film Directing Cinematic Motion: A Workshop for Staging Scenes By Steven Douglas Katz 2. Film Directing Fundamentals: See Your Film Before Shooting By Nicholas T. Proferes 3. Problems Of Film Direction By Sergei Eisenstein Reference Books: 1. Directing: Film Techniques and Aesthetics By Michael Rabiger 2. On directing film By David Mamet 3. Directing Actors: Creating Memorable Performances for Film and Television By Judith Weston	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	SCREENCRAFT: A Director's Screen Grammar, Seeing with a Moviemaker's Eye, Shooting Projects	2		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	THE STORY AND ITS DEVELOPMENT: Recognizing the Superior Screenplay – How to create drama, Analysing a Screenplay, Director's Development Strategies, Alternative Story Sources, Setting Creative Limitations	2		Theory, project and assignments, Screening (TV) PPT, etc
Unit- IV	AESTHETICS AND AUTHORSHIP: Point of View, Subtext, Genre, and Archetypes, Time, Structure, and Plot, Space,	2		Theory, project and assignments, Screening (TV) PPT, etc

<table>
<tr><td></td><td>Stylized Environments, and Performances, Form and Style</td><td></td><td rowspan="5">4. Art Direction for Film and Video By Robert L. Olson
5. The film director's team By Alain Silver, Elizabeth Ward
6. Notes of a film director By Sergei Eisenstein
7. Producing and Directing the Short Film and Video By Peter W. Rea, David K. Irving
8. Fundamentals of Film Directing By David K. Irving
9. Writing, Directing, and Producing Documentary Films and Videos By Alan Rosenthal
10. Breaking into Film by Kenna McHugh
11. Before You Shoot : A Guide to Low Budget Film and Video Production by Helen Garvey</td><td></td></tr>
<tr><td>Unit- V</td><td>PRODUCTION: Developing a Crew, Mise-en-Scene, Producing a Shooting Script, Before the Camera Rolls, Roll Camera, Location Sound, Continuity, Directing the Actors, Directing the Crew, Monitoring Progress</td><td>3</td><td>Theory, project and assignments, Screening (TV) PPT, etc</td></tr>
<tr><td>Unit- VI</td><td>ORGANIZING ACTION IN AN ACTION SCENE: Staging and Camera for Over Easy Action Scene, Development of Screenplay, Director’s Preparation for Directing an Action Scene, Over Easy Action Scene/Staging and Camera Angles for -Storyboard Artist</td><td>3</td><td>Theory, project and assignments, Screening (TV) PPT, etc</td></tr>
<tr><td>Unit- VII</td><td>– ORGANIZING ACTION IN A NARRATIVE SCENE: Staging and Camera for Narrative Scene, Choosing a Location, Staging, Camera Style</td><td>3</td><td>Theory, project and assignments, Screening (TV) PPT, etc</td></tr>
<tr><td>Unit- VIII</td><td>Styles And Dramatic Structures: Style, Narrative, Dramatic, and Poetic Visual Styles, The Variety of Dramatic Structures,</td><td>2</td><td>Theory, project and assignments, Screening (TV) PPT, etc</td></tr>
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NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF VISUAL COMMUNICATION**

LEARNING OBJECTIVE/S: Aesthetics, Perception, Representation, Visual Rhetoric, Cognition, Semiotics, Reception
Theory, Narrative, Media Aesthetics, Ethics, Visual Literacy, Cultural Studies.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Aesthetics, Perception, Representation	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Visual Rhetoric, Cognition, Semiotics, Reception	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Theory, Narrative, Media Aesthetics	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit-IV	Ethics, Visual Literacy, Cultural Studies	4		Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **SAMPADA DESHMUKH**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONVERGENCE AND BASICS OF WEB DESIGNING**

LEARNING OBJECTIVE/S: Convergence and Basics of Web Designing
Concept of Convergence, Internet Key Terms, New Media. Web Designing, HTML programming,
Basic Java Script, Designing your own website, uploading the website, links and navigation

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Convergence and Basics of Web Designing	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Concept of Convergence, Internet Key Terms, New Media.	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	HTML programming,	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- IV	Basic Java Script, Designing your own website, uploading the website, links and navigation	4		Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **BISWARANJAN SWAIN**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONCEPTS OF POST PRODUCTION & COMPUTER GRAPHICS (INCLUDING VFX)**

LEARNING OBJECTIVE/S: To understand the basics of visual effects | To understand the basic process of visual effects |
To learn about GUI
and CG | To understand the basics of 3D and creating real world in the digital world | To learn about compositing and camera tracking | To understand the process of vfx and final rendering

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Introduction to pre-production, production and post-production: Visual effects' a relatively new term describes what used to be more appropriately called 'special photographic effects'. What makes an effect 'special'? The decision as to which medium and format VFX elements are going to be shot with is directly dependent on how they shall be employed and what the specifications are for their final resting place. Methods of creating visual effects, Implementation	4		Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- II	Introduction to the User Interface (GUI): Introduction to 3D Space and the GUI, Introduction to Modeling, Introduction to Polygonal Box Modeling,			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc

	Introduction to Shell Modeling			
Unit- III	CG Basics: Animation Basics, Animation Hierarchies and Deformation, Joints Hierarchies and Constraints, Cameras, Rendering and Path Animation | Understanding Pipeline and integration: Digital image manipulation, 2D digital image manipulation, Compositing software, New life into old methods, Perfecting the illusion, 3D computer-generated imaging (CGI), Digitizing (getting information into the computer)			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- IV	Introduction to Lighting and Rendering: Light Properties, Defining Shadows, Defining Highlights and Specular, Diffuse Inter-reflection and Global Illumination, Render Layers, Rendering Engines and methods			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- V	Introduction to Compositing: Camera Staging and Composition, Renderers and Algorithms Benefits/Disadvantages, Rendering Passes, Introduction to Specific Compositing Software, Compositing 3D			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- VI	Study of VFX and Camera Tracking: Overview of			Theory, project and assignments,

	Production Pipelines, Rendering Utility Nodes, Camera Tracking Foundation 2D and 3D			Screening (TV) PPT, Software and Computer etc
Unit- VII	Introduction to FX (Effects): Overview of Dynamics, Rigid Body and Fluids, Introduction to Particles, Expressions, Introduction to Fields, Project Work			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- VII	Compositing and Rendering: The Interface, Keying, Rotoscoping, Color Correction, Keying, Multi-Pass Compositing			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **DRAMA PRODUCTION**

LEARNING OBJECTIVE/S: The module is intended to provide an introduction to the process of digital short film production for the purpose of making works of drama and fiction. The focus will therefore be on enabling the development of the practical and theoretical skills in pitching, planning, writing, shooting and editing necessary to produce a coherent and competent fictional moving image project.

The module will seek to introduce the student to a range of creative and scheduling skills which will assist them in the production of their projects. It will foreground the inherently collaborative and collective aspects of the production process by aiding the student to refine a range of communication and inter-personal skills to accomplish a broad range of tasks, including identification and planning of a suitable production idea; Allocation of roles for the pre-production, shooting and editing phases, as well as encouraging collective responsibility and accountability which is absolutely essential to the completion of any professional or team production. The module will also build upon the more technical grounding offered in Techniques 2 in order to develop the practical vocabulary and skills required to produce moving image projects. Students will be encouraged to investigate and undertake a role throughout their productions. In crews, they will produce two shorts for inclusion in their personal practice portfolio.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Introduction to the process of digital short film	4	Textbook Rabinger, M (2007) Directing: Film Techniques and Aesthetics, 4th Edition, Hoboken, Taylor and Francis Jones, C. and Jollige, G. (2000), The Guerilla Film Makers Handbook: London: Continuum Reference Books Catliff, S & Granville J. (2013) The Casting	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Making works of drama and fiction	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Enabling the development of the practical and theoretical skills in pitching, planning, writing,	4		Theory, project and assignments, Screening (TV) PPT, etc

Unit- IV	Shooting and editing necessary to produce a coherent and competent fictional moving image project.	4	Handbook: For Film and Theatre Makers, UK, Routledge Cartwright, S. (2012) Pre-Production planning for Video, Film and Multimedia, Hoboken, Taylor and Francis Field, S. (2005) Screenplay: The foundations of Screenwriting, New York, Delta Landry. P (2012) Scheduling and Budgeting your Film, Focal Press La Motte, R (2010) Costume Design 101: 2nd Edition: The Business and Art of Creating Costumes for Film and Television, Michael Wiese Productions Murch, W (2001) In the Blink of an Eye: A Perspective on Film Editing, Silman James Press Potter, C. (2001) Screen Language from Film Writing to Film Making: London Methuen	Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTERMEDIATE PRACTICAL FILM MAKING (AD AND SHORT FICTION FILM)**

LEARNING OBJECTIVE/S: To understand the production pipeline of film making process in advertisement film making | To introduce the process of Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film making | To understand the entire workflow in Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film | To gain exposure on various cameras and software used for production of Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film The students will undergo the process of Advertisement Film (product as well as PSU), Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film. The students will be exposed to professional HD cameras & software and will work on projects ranging from 30Seconds-15mins. The students will be exposed to the entire process of film making and the production workflow in Advertisement and Multiple Character multiple location Short Film production.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **AMBARI PATWARDHAN**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **LAWS RELATED TO FILMS, TV AND INTERNET**

LEARNING OBJECTIVE/S: To understand the various laws pertaining to media | To understand the need and importance of Copyright |To learn about intellectual property rights | To understand about media business ethics and issues pertaining to it

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	– Indian Contract Act, 1872: Essentials of valid contract discharge of contract, remedies for breach of contract. Contracts of Indemnity, Guarantee, Bailment, Pledge and Agency.	3	Text Books: 1. Maheshwari, S.N. and S.K. Maheshwari; A Manual of Business Law, 2nd Edition, Himalaya Publishing House, 2004. 2. Kushal M.C.,"Modern Indian Company Law",2004,Shree Mahavir Book Depot. 3. Kushal, M. C.; Business Law, Vikas Publishing House, New Delhi, 2004. Reference Books: 1. Kapoor, N. D.; Elements of Mercantile Law, Sultan Chand & Sons, NewDelhi,2003 2. Memoria & Memoria - Business Policy 3. David J. Fritzsche - Business Ethics: A Global & Management Perspective - Tata McGraw-Hill 4. Ramaswamy Namakumari - Strategic Planning - Corporate Strategy - MacMillan India Ltd 5. Velasquez - Business Ethics - Prentice - Hall of India	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	The Negotiable Instruments Act 1881: Essentials of a Negotiable instruments, Kinds of Negotiable Instrument Holder and Holder in Due Course, Negotiation by endorsements, crossing of a cheque and Dishonour of a cheque.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Media Law, Copyright and	3		Theory, project and

	Intellectual Property: IPR & copyright laws, Copyright Agreements : Short-Term vs. Long-Term Agreements, Media Law and Infringements : Case Studies, Menace of piracy and remedies to counter piracy, Statutory and non-statutory bodies formed to fight piracy		6. Dr.S. Shankaran - Business Ethics & values 7. Gulshan S.S. and Kapoor G.K., “Business Law including CompanyLaw”,2003,New Age International Private Limited Publishers. 8. Aggarwal S.K., “Business Law ,2003”,Galgotia publishing Company. 9. Bargiel, Ashok; Company Law, Vikas Publishing House, 2004.4. Kapoor, N. D.; 10. Elements of Company Law, Sultan Chand & Sons, New Delhi, 2003.5. Dr. Singh, Avtar; 11. Company Law, Eastern Book Co. Lucknow, Bharat LawHouse, Delhi, 2004 12. Peter Madsen & Jay M. Shafritz - Essential of Business Ethics 13. Ken Smith and Phil Johnson - Business Ethics and Business Behavior 14. Pratley - Essence of Business Ethics - Prentice - Hall of India	assignments, Screening (TV) PPT, etc
Unit- IV	– Role and importance of Business Ethics and Values in Business - Definition of Business, Ethics Impact on Business Policy and Business Strategy - Role of CEO - Impact on the Business Culture.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- V	Types of Ethical issues - Bribes - Coercion - Deception - Theft - Unfair Discrimination.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- VI	Vendors, Government, & Social Audit. | CSR- Definition and Importance, examples of various	3		Theory, project and assignments, Screening (TV) PPT, etc

	initiatives taken by various business groups like TATAs, Infosys, Birla and others | Difference between Cause Related Marketing (CRM) and CSR Case Studies: Reliance WLL license, 2G Scam, Satyam Scam and PWC's role in the scam!!! | Role of bodies like Competition Commission of India, SEC, SEBI, TRAI, etc in curbing unethical practices			

NAME OF THE STAFF: **SAMPADA DESHMUKH**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: NEW MEDIA THEORY AND PRACTICE (WITH ADVANCED WEB DESIGN AND APP MAKING)**

LEARNING OBJECTIVE/S: Web Designing – Adobe Dreamweaver, Designing a web page without the graphic user interface (HTML using notepad), Frames, Layers, Search Engine Optimization, HTML and DHTML, Using JavaScript, Embedding Java Applets, Using Activex Controls, Embedding Video and Audio into web pages, Streaming media, Using YouTube, Creating Forms, Learning basic PHP and MYSQL, Creating Database and using it in the web design, Creating a website for Mobile phones, Creating a news site, creating a brochure site, designing a portal interface, using vernacular language in web sites, dynamic fonts, creating a vernacular medium website, New media and popular culture, social networking, emerging identities, games as advanced new media, mobile journalism, new media as a pedagogical tool.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Web Designing	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- II	Adobe Dreamweaver	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- III	HTML and DHTML, Using JavaScript, Embedding Java Applets	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- IV	Basic PHP and MYSQL, Creating Database and using it in the web design, Creating a website	4		Theory, project and assignments, Screening (TV) PPT Computer, etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **UNDERSTANDING INDIAN CONTEMPORARY CINEMA**

LEARNING OBJECTIVE/S: Exploring the changing trends in Hindi Popular cinema in terms of storytelling, performances
technological and production aspects. Emergence of Film Festivals as a mode of exhibition and the kind of films selected for such prestigious film festivals. Focus on the changing aesthetic trends of regional films, popular films and festival films. Looking at the emergence of digital media and internet being a source of exhibition for films.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Exploring the changing trends in Hindi Popular cinema in terms of storytelling, performances	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- II	Technological and production aspects	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- III	Emergence of Film Festivals as a mode of exhibition and the kind of films selected for such prestigious film festivals.	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- IV	Focus on the changing aesthetic trends of regional films, popular films and festival films. Looking at the emergence of digital media and internet being a source of exhibition for films.	4		Theory, project and assignments, Screening (TV) PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: INTRODUCTION TO MEDIA PROJECT MANAGEMENT**

LEARNING OBJECTIVE/S: To educate about the basics involved in a media project management | To educate about the basic project production workflow and management | To educate about the role of a project manager | To help understand the details involving a new business project or proposal

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Production Management: The production Manager's job, The process of Production Management, The Business of Film-Pre production, production & post production, Preparing for production, Special Low Budget Indie productions, Locations & unions Management, Cast & Crew – Selection, contracts, agreements, work permits, etc., Budget preparation and budget forms, Insurance & competition bonds	3	Textbooks: 1. Film Production Management 101 Management and Coordination by Deborah S Patz 2. Surviving Production: The Art of Production Management for Film and Television by Deborah S Patz 3. Film Production Management by Bastian Cleve Reference Books: 1. Character Animation & Film Production By Chris Neuhahn, Josh Book 2. Producing and Directing the Short Film and Video By Peter W. Rea, David K. Irving 3. Film Production Theory By Jean Pierre Gegens 4. Production Management for Film and Video By Richard Gates	Theory, project and assignments, PPT etc
Unit- II	Business Creation: Business Plans and Ideation: Entrepreneurship Routes, Case Studies (Relevant and time specific), Introduction to	3		Theory, project and assignments, PPT etc

	Company Creation, Processes of Registration and Incorporation, Company Law, Introduction to Company Law, Registration Procedures and Exceptions, Company Procedure and Ethics		5. The Independent Film Producer's Survival Guide: A Business and Legal Sourcebook By Gunnar Erickson, Harris Tulchin, Mark Halloran 6. The Complete Film Production Handbook by Eve Light Honthaner 7. Independent feature film production By Gregory Goodell 8. Film Production By Steven Bernstein 9. Film production: the complete uncensored guide to independent filmmaking By Greg Merritt	
Unit- III	Contracts and Negotiations: Revenue sharing model, Minimum guarantee model, Share in profits model	3		Theory, project and assignments, PPT etc
Unit- IV	Conflict Resolutions: Negotiations and Bargaining : Role Play Exercise, Research Methodology for Business Planning	3		Theory, project and assignments, PPT etc
Unit- V	Scouting for business opportunities: Investor Pitch Exercises, Business Plan Formulation and Redesign, Financial Projections for Businesses	3		Theory, project and assignments, PPT etc

NAME OF THE STAFF: **K. SUDHESH**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF MARKETING AND PUBLICITY**

LEARNING OBJECTIVE/S: To introduce the basics of marketing and publicity design | To educate about the importance of marketing in today's world | To help understand the various tools needed for marketing and publicity design | To learn about the marketing plan and market research | To help get insight into consumer consumption behaviour

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Introduction to Marketing: 1. Importance of marketing, definition of marketing, scope of marketing, functions of marketing, marketing and its relation to other business functions, difference between sales and marketing. 2. Key marketing terms and concepts- need, want, demand, exchange, marketing myopia and marketing orientations, distinction between selling and marketing.3. Marketing Mix, 4Ps, 7Ps, 4Cs.	2	Reference books: 1. Competing For The Future By C.K. Prahalad & Gary Hamel. 2. Kotler on Marketing: How to Create, Win, and Dominate Markets By Philip Kotler. 3. How to Win Friends and Influence People By Dale Carnigie. 4. Market Research: A Guide to Planning, Methodology and Evaluation By Paul Hague. 5. Art of War By Sun Tzu. 6. Strategic Management By Gregory Dess, Lumpkin & Taylor. 7. How Winners Sell: 21 Proven Strategies to Outsell Your Competition and Win the Big Sale ByDave Stein. 8. Beyond Bullet Points: Using	Theory, project and assignments, PPT etc
Unit- II	Marketing Research: Definition, Marketing Research	2		Theory, project and assignments, PPT etc

	Process, Types of Research: Primary, Secondary, Qualitative, Quantitative		Microsoft® Office PowerPoint® 2007 to Create Presentations That Inform, Motivate, and Inspire By Cliff Atkinson. 9. Selling the Invisible: A Field Guide to Modern Marketing By Harry Beckwith. 10. Marketing Services: Competing Through Quality By Parasuraman & Leonard L. Berry. 11. Marketing Management (12th Edition) (Marketing Management) By Philip Kotler. 12. Consumer Behavior: Building Marketing Strategy, 9/e, (with DDB Needham Data Disk) By Hawkins, Best, & Coney. 13. Crossing the Chasm: Marketing and Selling High-Tech Products to Mainstream Customers By Geoffrey A. Moore. 14. Mind and Heart of the Negotiator, The (3rd Edition) By Leigh Thompson. 15. Radically Transparent By Andy Beal & Judy Strauss.	
Unit- III	Consumer Behavior: 1. Introduction and importance, model of consumer behaviour, characteristics affecting consumer behaviour.	2		Theory, project and assignments, PPT etc
Unit- IV	Segmentation, Targeting & Positioning: 1. Segmentation - Bases and process of segmentation, requirements for effective segmentation, niche marketing, segmenting consumer markets, segmenting business markets.2. Targeting- Evaluating market segments, selecting target market segments.3. Positioning- Positioning maps, differentiation and positioning strategy, communicating and delivering the chosen position	3		Theory, project and assignments, PPT etc
Unit- V	Introduction to the concept of IMC: Introduction & Familiarization, Definition of	3		Theory, project and assignments, PPT etc

	Promotion & Promotion Mix, Tools of Promotion Mix, IMC Planning Process, Creative Strategy, Media Strategy			
Unit- VI	Packaging for film & television: The art of Promo, Advertisement & In serial promotions, Art of Writing Copy, designing for various mediums, Public Relations, Planning, organizing and managing events. Managing the internet and social Media. Vendor selection and management, Media Planning & Buying	3		Theory, project and assignments, PPT etc

NAME OF THE STAFF: **SAMEER RANE, JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: ADVANCED PRACTICAL FILM MAKING - MUSIC VIDEOS**

LEARNING OBJECTIVE/S: To introduce the process of Music Video
To understand the production pipeline of Music Video
To understand the entire workflow in Music Video making process
To gain exposure on various cameras and software used for production of Music Video
The students will undergo the process of Music Video. The students will be exposed to professional HD cameras & software and will work on projects ranging from 5Mins-8mins. The students will be exposed to the production workflow in music Video.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **VI**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: FINAL PROJECT- SHORT FILM (30 MINUTES)**

LEARNING OBJECTIVE/S: Comprehensive, which will include writing an original story to production and distribution of film in the national and international circuit. It will also involve creating a blog, FB page, website for the film. Write a report on the roles performed by each student. The students will have to make a 30 minute short fiction project.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI)**

SEMESTER: I **SUB : FC** MONTH: **AUGUST TO NOVEMBER** ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE DIVERSE COMPOSITION OF THE INDIAN SOCIETY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE I **UNIT : I** OVERVIEW OF THE INDIAN SOCIETY	Understand the Multicultural diversity of Indian Society	01	**FOUNDATION COURSE I** Payabhut Abhyas-Prof	*1.Chalk Duster*
	Demographic Composition Population based on Religion, Caste & Gender	01		
	Concept of Linguistic Diversity	01		

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	Understand Regional Variations – Rural, Urban & Tribal	01	S.S.Liman,Prof S.J.Vaghmare	
	Understanding the Concept of Diversity as a Difference	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05 Lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :II CONCEPT OF DISPARITY I	Concept of Disparity of Indian ,Stratifications And Inequality-Caste, Class & Estate System	03		*1.Chalk Duster*

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

	Gender Disparities Especially problems related to Women	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	
	Disparities faced by People with Disabilities - Physical & Mental	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :III CONCEPT OF DISPARITY II	Examine inequalities Disparities due to Caste System and inter Group Conflicts	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Disparities based on inter group conflicts such as communalism	03		
	Causes & Effects of Conflicts arising out of Regionalism & Linguism	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI/ENGLISH)**

SEMESTER: II **SUB : FC** MONTH: J**ANUARY TO MARCH** ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE DIVERSE COMPOSITION OF THE INDIAN SOCIETY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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UNIT : 1 GLOBALIZATION AND INDIAN SOCIETY	concepts of liberalization,privatization and globalization ,	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	growth of information technology and communication and its impact ,impact of globalization on industry	03		
	changes in agrarian sector due to globalization,reise in corporate farming	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :2 HUMAN RIGHTS	concept of Human Rights :origin and evolution of the concept	04	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	The Universal Declaration of Human Rights	03		
	Human Rights constituency with special references to fundamental Rights stated in the constitution	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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UNIT :3 ECOLOGY	Importance of environmental Studies in the current development context	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Concept of Environment ,Ecology and connection	03		
	connection to quality of human life	02		
	Degradation - causes and impact on human life	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

TEACHING PLAN (UNIT Plan)

NAME OF THE STAFF: MS. Kavita yogesh Patil MONTH: **JULY TO NOVEMBER** DEPARTMENT: History

SUB : MARATHI CLASS: F.Y.B.A. (MAR) comp. SEMESTER: I ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MARATHI LEKHANATIL VRUTTALEKHAN ,VRUTTANTLEKHAN KAUSHYALA,.KATHA PRAKAR VIDYARTHYANA MAHITI KARUN DENE .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MAR(COMP.) Ghatak -2 Vyavaharik Marathi Ghatak-1 KATHARANG	1)vrutta lekhan, vruttantlekhan 2)Give him a chance 3)Rohit 4)pakumavshi 5)bhuk 6) harih hasu	30	Valimbe,Mo.Ra.'Sugam Marathi Vyakran va Lekhan', Nitin Prakashan 1)M.na.advant:pradakshina khand pahila 2)joshi sudha:katha:sankalpana ani samiksha, mauje Prakashan	*1.Chalk Duster*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil DEPARTMENT: History (ARTS)

CLASS: F.Y.B.A. (MAR) comp. SEMESTER: I MONTH: **JULY TO NOVEMBER** ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: DALIT KATHETIL BADLATYA PRAVHACHA ABHYAS KARANE.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MAR(COMP.) Ghatak -1 KATHARANG	1)ARJ LEKHAN 2)Bhashanter 3)GHUSMAT 4)CHURADA 5)kemikali boy ani saringa	30	Suravade manohar:1980 nantarchi gramin katha balivansh prakashan ,nanded	*1.Chalk Duster*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil DEPARTMENT: History

CLASS: F.Y.B.A. (MAR) SEMESTER: II MONTH: **JANUARY TO MARCH** ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO:MANOVAIDNANIK KATHA,AADIVASI KATHA,SHAHRI KATHA CHA ABBHYAS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

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MAR(COMP.) Ghatak -1/2 KAVYARANG	1) Itivruttlehan 2) jahirat lekhan 3) janiv 4) bapuji uddeshun 5) sarv mothya kavina 6) aanghol n kelela paus 7) KAVYPRAKARNCHA AHYAS	04 04 02 02 02 02 04	KAVYARANG :sampadak dr.nitin arekar ,dr.nanasaheb yadav,dr.jagdish rane	Group Discussion, CHALK DUSTER

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

MONTH: **JANUARY TO FEBRUARY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

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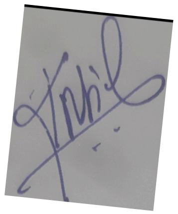
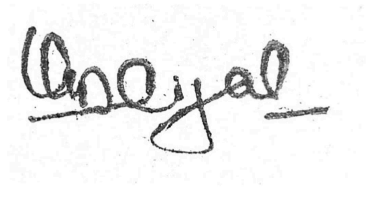
		ALLOTTED		
MAR(COMP.) Ghatak -1/2 KAVYARANG	1) UTARYAVARIL PRASHN 2) SARANSH LEHAN 3) NIBANDH LEKKHAN	04 04 04	kavyarang :sampadak dr.nitinarekar ,dr.nanasahbya dav,dr.jagdish rane	Group Discussion, CHALK DUSTER
	1) TICH BAI HOT JAN 2) BAIPANATUN BAHER HOT JAN	20		
	3) TAS GHARACH LAPEER MI 4) VIDNYAN VANDANA 5)GANDHI JAYANTI 6)RANABABHAL 7)PASHU 8)KRANTISATHI KAVITA LIHNARYANO 9)TE BAGHA TYA TITHE			





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	10)ANDUKINE ANUS MARTO HI AND SHRADDHA AAHE HI DOCTOR 11)ZULVE 12)SIMON THE 13) SHODH 14)GHEUN CHAL MLA 15)SHETAJURA CHYA PORI			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20 Lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita Yogesh Patil DEPARTMENT: HISTORY **Month: JULY TO NOVEMBER**

ACADEMIC YEAR: 2022-2023

F.Y.B.A. (Hindi(comp) SEMESTER: I CLASS: **FYBA(ENGLISH)**

LEARNINBJECTIVE/S:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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VIVA COLLEGE, Virar (W)

THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, SHUDHALEKHAN KE NIYAM

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Hindi(COMP.) *kavya -sarita *katha -darpan	aadhunik hindi kavita ki vikas yatra 1)bharat mata ka mandir-maithalisharan gupta 2)sab jivan bita jata hai-jayshankar prasad 3)bhar dete ho-surkant tripathi 4)manovriti-premchand 5)vrat-bhang-jaishankar prasad	12	hindi kahani ka vikas-katha darpan satho hindi kahani-katha darpan	Group Discussion, CHALK DUSTER

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) **SEMESTER: I** **MONTH: NOVEMBER TO DECEMBER ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:KAVITA AUR KAHANIYA KA ADHYAN, SANGYA,SARVANAM, VISHESHAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1)pralay ki ratri -suderashan 2)enam-jainendra kumar 3)mahadan-yashpal 4)prayaschit-bhagwati charan verma		hindi kahani ka vikas	Group Discussion,

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kathak darpan kavya sarita	5)these-phanishwar nath renu 6)yah mandir ka deep-mahadevi verma 7)shakti aur kshma-ramdhari sinh		aadhunik kavita ki vikas yatra	CHALK DUSTER

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:MS. KAVITA YOGESH PATIL **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) compulsory **SEMESTER: II** **MONTH: JANUARY TO FEBRUARY** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, APATHIT GADHYNSH,anulekhan

TITLE	SUBTOPIC	NO.OF LECTURES ALLOTTED	REFERENCES	METHOD/ ICT TOOLS USEDHi
kathak darpan	1)pushp ki abhilasha -makhanlal chaturvedi 2)ve aur tum -nagarjun		hindi kahani ka vikas	Group Discussion,

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kavya sarita	3)rith ki haddi-harivansh rai bachchan 4) aaj ka dainik-bhavani prasad mishra vyakaran--naam,sarvanam,ling,vachan		aadhunik hindi kavita ki vikas yatra	CHALK DUSTER Group Discussion,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(MARATHI/ ENGLISH)**

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO GET A BRIEF OVERVIEW OF THE IMPORTANT ASPECTS OF THE GLOBAL SOCIETY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE III **UNIT : I** HUMAN RIGHTS VIOLATIONS & REDRESSAL	Scheduled Castes – Constitutional & Legal Rights, Violations And Redressal Mechanisms	02	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Scheduled Tribes– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Women– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Children– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Disabilities Minorities, Elderly Persons– Constitutional & Legal Rights, Violations And Redressal Mechanisms	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :II DEALING WITH ENVIRONMENTAL CONCERNS	Concept Of Disasters And General Effects Of Disasters On Human Life	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Local Case Studies Of Environmental Disasters	02		
	Dealing With Disasters: Prevention, Mitigation, Disaster Preparedness	03		
	Human Rights Issues And Violations In Addressing Disasters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :III SCIENCE & TECHNOLOGY I	Development Of Science: Ancient Culture, Classical Era, Middle Ages, Renaissance, Age Of Enlightenment	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghma	*1.Chalk Duster*
	Nature Of Science : Principles, Characteristics, Theories & Practical's	02		
	Science & Superstition: Exploding Myths, Blind Beliefs, Prejudices. Building Scientific Temper	03		
	Science In Everyday Life : Science & Technology Inter Relation And Distinction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV: SOFT SKILLS FOR INTERPERSONAL COMMUNICATION	PART A: ● Verbal And Non Verbal Communication ● Listening Skills ● Barriers In Effective Communication ● Importance Of Body Language	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	PART B: ● Formal & Informal Communication ● Writing Skills ● Group Discussions ● Interviews ● Presentations:	04		
	PART C : ● Leadership Skills ● Self Improvement Skills ● Team Building	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF:MS. KAVITA YOGESH PATIL **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) compulsory **SEMESTER: I** **MONTH: NOVEMBER TO DECEMBER** **ACADEMIC YEAR: 2020-2021**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, APATHIT GADHYNSH,PATRA LEKHAN

TITLE		ALLOTTED		METHOD/ ICT TOOLS USEDHi
Hindi compulsory 1)Kavya Kunj 2)Shreshtha kahaniya bhag-1	1)DIYA JALANA kAB MANA HAI- HARIVANSH BACHHAN 2)JALAO DIYE PAR RAHE DHYAN ITNA-GOPALDAS 3)SADACHAR KA TABIJ-HARISHANKAR PARSAI 4) DIPTI COLLECTOR-AMARKANT 5) APNA GAV-MOHANDAS NAIMISHARANYA BHASHA dakshata- 1)apathit gadyansh 2)patra lekhan	12	1)Kavyakunj sampadan:hindi adhyan mandal, Mumbai vishwavidyalaya:Prakashan rajkamal, new Delhi 2)SHRESHTHA KAHANIYAN BHAG-1 SAMPADAN:HINDI ADHYAN MANDAL, MUMBAI VISHVAVIDYALAYA, PRAKASHAN:VANI,NEW DELHI	Group Discussion,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Late Shri. Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Nilima Bhagwat **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** JUNE-DEC **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Budget of The Government of India
- To understand Components of Public Expenditure
- To understand Appraisal of FRBM Act
- To understandFourteenth Finance Commission Recommendations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit IV Indian Public Finance	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts	03	1)Sury M.M., (1990), Government Budgeting in India,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

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	(Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations		Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth Finance Commission,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:**JUNE-DEC **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To understand economic planning in India
- To understand recent structural changes in economy
- To understand Demonetization, Fiscal policies.
  To understand the upcoming policy of Universal Basic Income

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: PUBLIC FINANCE Module 1: INTRODUCTION	Meaning and Scope of Public Finance –Public Finance Versus Private Finance - Market Failure – Public Goods and Private Goods – Externalities - Efficiency versus Equity – Principles of Sound Finance and Functional Finance – Allocation, Distribution, Stabilisation and Growth functions of the Government	12	J. Hindriks, G. Myles, Intermediate Public Economics, MIT Press, 2006	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** JULY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To understand recent structural changes in economy
- To understand the economics of government expenditure and taxation.
- To use economic analysis to predict and verify the effects of government intervention on behaviour of individuals, households, and firms.
- To discuss the implications of policy for efficiency and equity.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IVPUBLIC FINANCE Module 2: Fiscal policy: Budget and taxation	Dalton’s and Musgrave versions of the Law of Maximum Social Advantage - Role of government in a modern economy – Types of Public Budget - Structure of Public Budget - Role of taxation - Merits and Demerits of Direct and Indirect Tax Policy - Features of Good Tax System - Concept of Impact, Incidence and Shifting of Taxation–Elasticity and determination of tax burden	12	KaushikBasu and Maertens (ed) The New Oxford Companion to Economics in India, Oxford University Press, 2013	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:**AUGUST **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in the Indian Economy.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Public Finance Module 3: FISCAL POLICY: PUBLIC EXPENDITURE AND DEBT				
	Canons of Public Expenditure – Classification of Public Expenditure - Wagner's Law of Public Expenditure – Public Expenditure as an instrument of Fiscal Policy; Meaning and Types of Public Debt – Burden of Public Debt - Principles of Public Debt Management – Concepts of Deficits	12	Sury M.M., Government Budgeting in India	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:**AUGUST **ACADEMIC YEAR:** 2022-23

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Public Finance **Unit IV Indian Public Finance**	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations	12	Sury M.M., Government Budgeting in India	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**DECEMBER **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module- I: Introduction	Trends in India’s National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India	12	Ashwini Mahajan, Gaurav Datt, (2018) ‘Indian Economy’, S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**JANUARY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module - II: Agricultural Sector	Role of Agriculture in Economic Development; Causes of Low Productivity; Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India	12	Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**FEBRUARY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module -III: Industrial Sector	Infrastructure for Industrial Development; Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development		Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	
		12		GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

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NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**MARCH **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module -IV: Service Sector	Role of Service Sector in Indian Economy; Growth and Performance of Healthcare; Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XIIth Five Year Plan	12	Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND BASIC PRINCIPLES OF MICROECONOMIC THEORY.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module - I: Introduction to Microeconomics	Module - I: Introduction to Microeconomics : Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	2	N.Gregory Mankiw, (2015), "Principles of Microeconomics" 7th edition-Cengage Learning	Group Discussion, PPT, QUIZ

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE CONCEPT OF CONSUMER'S BEHAVIOUR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

ECO I: Microeconomics – I Module IV: Consumer's Behavior	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	2	M.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd	Group Discussion, PPT, QUIZ .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER: V** **MONTH: JULY -DEC** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 1: Meaning of	Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.	12	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson	PPTs, Group Discussion, Quizzes

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Economic Growth and Development			Education, 2003.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: V MONTH: AUGUST ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Various Theories of Growth and Development

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 2: Theories of Economic Development	Rostow’s Stages of Growth; Big Push Theory- Leibenstein’s Critical Minimum Effort Thesis – Harrod – Domar Growth Model – Lewis Model of Unlimited Supply of Labour – Ragner Nurske’s Theory of Disguised Unemployment- Schumpeter’s Theory of Development	12	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Structural Issues in Development Process

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 3: Structural Issues in Development Process	Concept of Human Capital- Role of Education, Health and nutrition in Human Capital - Meaning and Measurement of Poverty and Inequality- Measures to eradicate poverty and Inequality - Meaning of Inclusive growth - SHG and Microfinance- Migration – Urbanization- Formal and Informal Sector- Urban Informal Sector	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: OCTOBER** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Planning, Technology and Economic Development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT:	Concept and Role of infrastructure in Economic Development- Role of technology in Economic Development- Labour intensive versus Capital intensive technology- Schumacher’s concepts of intermediate and appropriate technology- Green Technology- Meaning and	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave	PPTs, Group Discussion, Quizzes

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Module 4: Planning, Technology and Economic Development	**Types of Economic Planning- Role of Planning in Economic Development**		**MacMillan, 2005**	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 1: Introduction to Trade Theories**	Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade – Ricardian theory of comparative cost difference Heckscher - Ohlin Theory- Leontief's Paradox- Krugman's Model	**12**	**Kindleberger Charles P, International Economics, Homewood, USA, 1978**	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2021-22

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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VIVA COLLEGE, Virar (W)
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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: Module 2: Balance of Trade and Balance of Payment	Concepts of Terms of Trade(Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand-Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy	12	Dominick Salvatore, International Economics: Trade and Finance, JohnWiley International Student Edition, 10th edition, 2011.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT: ECONOMICS** **CLASS: T.Y.B.A. (ENGLISH)** **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS:	Meaning and Functions of Foreign Exchange Market-Exchange rate determination, Factors influencing foreign exchange rate-Managed Flexibility-SWAP		Kindleberger Charles P, International Economics,	PPTs, Group Discussion, Quizzes

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Module 3: Foreign Exchange Market	Market, Components of foreign exchange reserves Foreign Aid Vs Foreign Trade, FDI and MNCs	12	Homewood, USA, 1978	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 4: International Economic Institutions and Economic Integration**	IMF, World Bank - Role and functions-WTO-Objectives, Functions and Agreements with respect to TRIPS,TRIMS, GATS, AoA - Forms and objectives of Economic Integration-Cartels-Trade Blocs, ASEAN-European Union (EU)- NAFTA and SAARC.	12	Dominick Salvatore, International Economics: Trade and Finance, JohnWiley International Student Edition, 10th edition, 2011.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Economics CLASS: TYBA SEMESTER: V MONTH: JUNE TO DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand microeconomic theory, working of markets and welfare theory

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 : General Equilibrium and Welfare Theory Moudle 2: Market Structure: Monopoly and Monopolistic competition Module 3 : Oligopoly	Concept of generla Equilibrium, Walrasian general equilibrium model, pareto optimality, Arrow Impossibility Theorem	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board
	Concept monopoly, measurement of monopoly power,price discrimination,monopolistic competition, chamberlain approach, equilibrium in monopolistic competition	14	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced	Chalk and Board

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Module 4 : Information Economics			Economic Theory	
	Cournot model, meaning and characteristics of oligopoly,price rigidity, collusive oligopoly, cartel formation, Game theory	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board
	Search and Cost, theory of asymmetric information, market for lemons, adverse selection, price signalling, moral hazard, principle-agent problem	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __40_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND BASIC PRINCIPLES OF MICROECONOMIC THEORY.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module - I: Introduction to Microeconomics	Module - I: Introduction to Microeconomics : Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	2	N.Gregory Mankiw, (2015), "Principles of Microeconomics" 7th edition- Cengage Learning	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE CONCEPT OF CONSUMER'S BEHAVIOUR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module IV: Consumer's Behavior	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	2	M.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. H.L.Ahuja, (2016) "Advance Economics	Group Discussion, PPT, QUIZ .

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			Theory" S.Chand & Company Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: M.A. PART II SEMESTER: III MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND CLASSICAL TRADE THEORIES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INTERNATIONAL TRADE: THEORY AND POLICY Module 1: Classical and Neoclassical Theories of Trade.	Brief review of absolute and comparative advantage of trade, real and opportunity cost approaches, terms of trade, reciprocal demand and offer curves, The Heckscher – Ohlin (H-O) Theory, Factor Price Equalization Theorem, Leontief's paradox, Rybczynski Theorem, Product cycle theory and technological gap theory.	4	1.Grimwade Nigel, International Trade (Second Ed), Routledge, London 2001 2.Grubel H.G. and P.J. Lloyd, Intra-Industry Trade, Macmillan, London,19	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: M.A. PART II SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE ROLE AND FUNCTIONS OF VARIOUS TRADE BLOCS IN INTERNATIONAL TRADE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INTERNATIONAL TRADE: THEORY AND POLICY Module 4: Contemporary	Regionalism and Multilateralism in the context of WTO, Critical Evaluation of the Role played by WTO, Overview of regional trading arrangement: SAARC, SAFTA, ASEAN, European Union, NAFTA.	4	1.Anderson, K. (2002) 'Peculiarities of Retaliation in WTO Dispute Settlement', World	Group Discussion, PPT, QUIZ .

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Regional Trading and WTO.			Trade Review 1, 2: 123-134 2. Esserman, S. and Howse, R. (2003) 'The WTO on Trial', Foreign Affairs 82, 1: 130-140	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: M.A. PART II **SEMESTER: IV** **MONTH: DEC-APRIL** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER : DEMOGRAPHY: THEORY AND POLICY Module 2: Nuptiality and Fertility	Concepts of Nuptiality, Analysis of Marital Status Data, Singulate Mean Age at Marriage, Concepts and Measurements of Cohort and Period Fertility, Rele's Method, Bongaarts Proximate determinants of fertility	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2021.	PPTs, Group Discussion, Quizzes

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: M.A. PART II SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER: DEMOGRAPHY: THEORY AND POLICY Module 2: Nuptiality and Fertility	Socio-economic determinants of proximate variables, indirect estimation of Fertility, Social Engineering.	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2021.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: M.A. PART II **SEMESTER: IV** **MONTH: APRIL** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: BAKING SECTOR REFORMS IN THE WORLD

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:DEMOGRAPHY: THEORY AND POLICY Module 4: Migration and Population Projections	Concepts, Patterns and Measures of Migration, Migration Theories and Models (Ravenstein’s, Lee’s, Wolpert’s and Todaro’s Models). Internal and International Migration, Spatial Distribution and Urbanization, Importance of Population Projection.	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2000.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING OF MACROECONOMICS AND CONCEPTS OF NATIONAL INCOME

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE I: Introduction to Macroeconomics and National Income	Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposable Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income: Closed Economy (Two and Three Sector) and Open Economy Models (Four Sector Model)	3	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: RELATIONSHIP AMONG INCOME, CONSUMPTION, SAVINGS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II:MACRO ECONOMICS I MODULE II: Consumption and Investment	Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier	3	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: DEMAND AND SUPPLY OF MONEY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE III: Supply of Money and Demand for Money	Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches	3	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: FUNCTIONS OF BANK

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: Banking	Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional	3	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JUNE-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE I: Module - I: Inflation	Module - I: Inflation The Economics of Depression, Hyperinflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II:MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW : Post Keynesian Economics

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VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JUNE-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE I: Module - I: Inflation	Module - I: Inflation The Economics of Depression, Hyperinflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II:MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW : Post Keynesian Economics

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JUNE- DECEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: DERIVATION OF IS-LM CURVE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 1: Post Keynesian Synthesis	Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment- Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Phillips Curve - Adaptive Expectations and Rational Expectations.	4	Dornbusch, Fischer and Startz (2018): Macroeconomics, McGraw Hill Education (India) Pvt. Ltd.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: TRADE CYCLE THEORIES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**	**Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.**	**4**	Mankiw N Gregory (2003), Macroeconomics , 6" edition, Worth Publishers, New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2022-23**

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: EXCHANGE RATE SYSTEM IN THE WORLD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 3: Exchange Rate Regimes and Currency Crises	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency - Currency Crisis-Causes, Impact and Measures	4	Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: CURRENCY MARKET IN THE WORLD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 4: International Monetary System	Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro- Currency Market - Causes and Consequences of Global Economic Crisis - Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) - New Development Bank (NDB): Asian Development Bank (ADB).	4	Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.	PPTs, Group Discussion, Quizzes

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER: V** **MONTH: JUNE -DEC** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO : Get the information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 1: Classical Economics**	Mercantilism and Physiocracy: Introduction -Adam Smith: Liberalism -Division of Labour -Theory of Value - David Ricardo: Rent Theory- Wage Theory - Theory of Value- Karl Marx: Surplus Value Materialistic Interpretation of History -Scientific Socialism	**3**	Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.	**PPTs, Group Discussion, Quizzes**

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JULY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Get the information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 2: Neoclassical Economics**	Alfred Marshall : Thought on Value - Representative Firm - Consumer's Surplus - Internal and External Economies-Quasi Rent - Schumpeter: Economic Development And Innovation-Pigou :Welfare Economics.	**3**	Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO : UNDERSTAND TRADE CYCLE, FISCAL POLICY.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 3: Keynesian Ideas**	Employment Theory- Money- Wage Rigidity Model- Multiplier and accelerator and their interaction - Trade Cycle - Inflation -Role of Fiscal Policy - Keynesian Economics and Developing Countries	**3**	Gide, O. and G. Rist, A History of Economics Doctrine. George Harrop Co. London. 1956.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: SEPTEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO : Establish the correlation of Economics with other subjects.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT - I **Module 4: Post-Keynesian Economics**	Supply Side Economics -Hayek's Theory of Trade Cycle- Life Cycle theory Consumption- Friedman: Theory of Demand for Money - Long-Run Philips Curve - Mankiw's New Keynesian Model - Stagflation.	**3**	Gide, O. and G. Rist, A History of Economics Doctrine. George Harrop Co. London. 1956.	**PPTs, Group Discussion, Quizzes**

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Familiarize with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT-II	Kautilya on welfare state -Dadabhai Naoroji's Thoughts on Drain Theory- Ranade's Case on Protection - R. C. Dutt on Imperialism - Land Tax and Public Finance - Gopal Ganesh Agarkar.	**3**	Ajit K.Dasgupta,A History of Indian Economic Thought,	**PPTs, Group Discussion, Quizzes**

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Module 1: Indian Economic Thought			(1993)Routledge London and New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JANUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Familiarize with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF			Ajit	

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ECONOMIC THOUGHT-II **Module 2: Economic Thought of Mahatma Phule and Gandhi**	Mahatma Phule's Views on Agriculture - Reasons of Farmer's Poverty - Gandhian Economic Thoughts on Self-Sufficient Village Economy - Dignity of Labour – Trusteeship - and Sarvodaya.	**3**	K.Dasgupta,A History of Indian Economic Thought, (1993)Routledge London and New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Get information about the genesis of Economics and its modern scenario

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT-II **Module 3: Economic Thought of Dr. B.R.Ambedkar, G.K.Gokhale and Dr. Manmohan Singh**	Dr.Ambedkar's Case for State Socialism - Problem of Rupee - Public Finance – G.K.Gokhale on Development and Welfare - Dr. Manmohan Singh's ' Three Steps' to Stem India's Economic Crisis.	3	Ajit K.Dasgupta,A History of Indian Economic Thought, (1993)Routledge London and New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Get information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT-II **Module 4: Nodel Prize Winners in Economics**	Dr. Amartya Sen (1998) -Robert. A. Mundell (1999) -Joseph Stiglitz(2001) -Dr. Abhijeet Banarjee (2019)	**3**	Encyclopaedia of Nobel Laureate, Ed's, (2002) R. Kapila & A. Kapila, Academic Foundation.	**PPTs, Group Discussion, Quizzes**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER: V** **MONTH: JUNE -DEC** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 1: Meaning of Economic Growth and Development	Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.	4	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Various Theories of Growth and Development

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 2: Theories of Economic Development**	**Rostow's Stages of Growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis – Harrod – Domar Growth Model – Lewis Model of Unlimited Supply of Labour – Ragnar Nurske's Theory of Disguised Unemployment- Schumpeter's Theory of Development**	**4**	**Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.**	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO KNOW: Structural Issues in Development Process

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 3: Structural Issues in Development Process	Concept of Human Capital- Role of Education, Health and nutrition in Human Capital - Meaning and Measurement of Poverty and Inequality- Measures to eradicate poverty and Inequality - Meaning of Inclusive growth - SHG and Microfinance- Migration – Urbanization- Formal and Informal Sector- Urban Informal Sector	4	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: SEPTEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Planning, Technology and Economic Development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 4: Planning, Technology and Economic Development	Concept and Role of infrastructure in Economic Development- Role of technology in Economic Development- Labour intensive versus Capital intensive technology- Schumacher's concepts of intermediate and appropriate technology- Green Technology- Meaning and Types of Economic Planning- Role of Planning in Economic Development	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**
CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JUNE-DECEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: INDIAN LABOUR MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II **Module 1: Introduction - Indian Labour Market**	**Characteristics of the Indian Labour Market, Child Labour and Women Labour -Problems and Measures, Labour Market Reforms - Exit Policy and Need for Safety Nets, Second National Commission on Labour, Globalization and its impact on Indian Labours.**	**3**	U. Ratna Sen, Industrial Relations in India - Shifting Paradigms (2005), Macmillan, New Delhi.	**PPTs, Group Discussion, Quizzes**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JANUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: WORKING OF TRADE UNION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II	**Definition and Functions of Trade Unions, Historical Evolution of Trade Unions in India and their Present Status- Problems of Trade Unions in India- Role of**	**3**	Mamoria C.B. and Mamoria S. (2002), Dynamics of Industrial	

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Module 2: Trade Unionism	**Outside Leadership- International Labour Organization.**		Relations, Himalaya Publishing House, Mumbai.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: ROLE AND IMPORTANCE WORKERS PARTICIPATION IN FUNCTIONING OF THE INDUSTRY

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II Module 3: Industrial Relations	Causes of Industrial Disputes and Their Settlement Mechanism- Collective Bargaining - Concept, Features - Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India -Workers' Participation in Management- Concept, Objectives and Forms of Workers Participation in India -Working Conditions and life style of Indian workers.	3	CO Monappa A, (2006), Industrial Relations, Tata McGraw Hill Publishing Company Ltd, New Delhi.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS LABOUR WELFARE THEORIES AND PROGRAMMES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II **Module 4: Labour Welfare and Social Security**	**Concept -Theories and Principles of Labour Welfare- Agencies for Labour Welfare, Role of the Labour Welfare Officer - Social Security-Concept; Social Assistance and Social Insurance – Social Security Measures in India - Indian Labour Legislations.**	**3**	Mamoria C.B. and Mamoria S. (2002), Dynamics of Industrial Relations, Himalaya Publishing House, Mumbai.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JUNE-DEC** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: CONCEPT, QUALITIES OF ENTREPRENEUR

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 1: Entrepreneurship**	Concept of an entrepreneur and entrepreneurship, qualities of the successful entrepreneurs- role and functions of entrepreneurs in economic development- factors influencing entrepreneurship- Challenges before women entrepreneurship	**4**	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Potentials – Deep & Publications 1999	**PPTs, Group Discussion, Quizzes**

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JULY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Skills required for Starting a new venture

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 2: Starting a new venture**	Project identification - selection and formulation, Registration of small scale industries - project report - Sources of finance for a business - Export documents and trends of small enterprises- major constraints in export performance.	**4**	Desai Vasant, Dynamics of Entrepreneurial Development and Management, Himalaya Publication	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: ABOUT THE SMALL SCALE INDUSTRIES

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII : ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 3: Small scale industries**	Meaning and scope of small scale industries, importance of small scale industries, problems faced by small scale industries, SWOT analysis for small scale industries, forms of business organizations: Sole proprietorship – Features, advantages & disadvantages. Partnership - Features, advantages & disadvantages. Joint stock Company – Features, advantages & disadvantages. Co-operative – Features, advantages & disadvantages	**4**	Murthy C.S.V. Small Industries & Entrepreneurship Development, Himalaya Publication	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: SEPTEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: FUNDAMENTALS OF MANAGEMENT IN SMALL SCALE INDUSTRIES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 4:** Management and incentives for small scale industries	Fundamentals of management: productions and operations management- working capital management, marketing management - Human resource management- Total quality management - Management information system- Incentives to small scale industries.	**4**	Singh P.N. and Saboo J.C., Entrepreneurship Management, P.N.Singh Centre	**PPTs, Group Discussion, Quizzes**

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Bhaskar Waman Thakur College of Science
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VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Yashvant Keshav Patil College of Commerce
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div-A & C **SEMESTER:** I **MONTH:** August **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics Module - I: Introduction to Microeconomics	.Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic	02	M.L.Jhingan, (2006) "Microeconomics Theory", 5	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative		th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: September** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :

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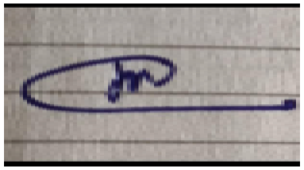
- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics - Module - I: Introduction to Microeconomics	Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd.** **5. H.L.Ahuja, (2016) "Advance Economics**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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			Theory” S.Chand & Company Ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

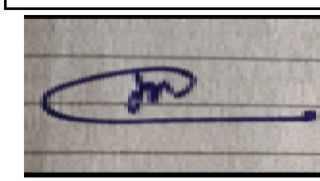
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A.Div A & C **SEMESTER:** I **MONTH: October** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTUR ES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED



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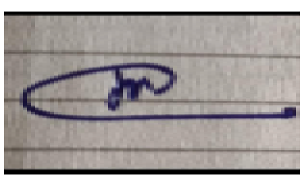
		ALLOTED		
Micro economics - Module IV: Consumer's Behavior	Module IV: Consumer's Behavior (12 Lectures) Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02



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TEACHING PLAN (UNIT PLAN)

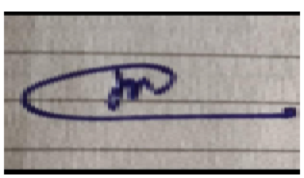
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: November** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics - Module IV: Consumer's Behavior	Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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			th edition Vrinda Publication (P) Ltd. **5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.**	

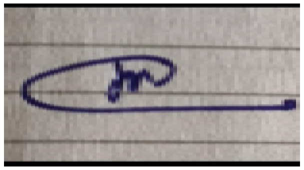
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** II **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :



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- Understand the concept of cost & revenue .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Microeconomics – II Module II: Cost & Revenue Analysis	Concepts of Costs: Money and Real Cost, Social Cost, Private Cost, Explicit and Implicit Cost, Opportunity Cost; Relationship between Average, Marginal and Total Cost;	02	**Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja,**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** II **MONTH:** February **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

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Bhaskar Waman Thakur College of Science
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NAAC accredited "B" Grade, 2.69 CGPA

The learners will be able to :

- Understand the concept of cost & revenue

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module II: Cost & Revenue Analysis	Derivation of Short Run and Long Run Cost Curves; Concepts of Revenue: Types and Interrelationship	02	Sikdar, S. (2006), Principles of Macroeconomics,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: March** **ACADEMIC YEAR:** 2022-23

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the Concept Of Equilibrium

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module IV: Equilibrium in Different Market Structure	Concept Of Equilibrium: TR - TC And MR - MC Approach; Features of Perfect Competition; Monopoly and Monopolistic Competition, Short Run and Long Run Equilibrium of Firm and	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: April** **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the Concept Of Equilibrium

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module IV: Equilibrium in Different Market Structure	Industry under each Market Condition; Selling Cost and Wastages under Monopolistic Competition	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND. **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Meaning and Scope of Public Finance
- To understand Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles
- To understand Principles of Sound Finance and Functional Finance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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		ALLOTE D		
Paper -3 Public finance Module:- 1 introducti on	Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution, Stabilisation and Growth Functions of the Government	03	1)Sury M.M., (1990), Governme nt Budgeting in India, Commonw ealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publication s.3). Report of the Fourteenth Finance Commissio	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			n,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

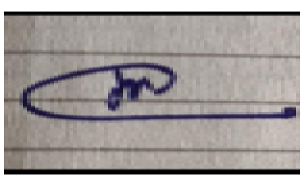
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand the Law of Maximum Social Advantage;
- To understand Types of Public Budget;
- To understand Role of Taxation
- To understand Determination of Tax Burden
-
- To understand th tax system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED



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Unit III Fiscal Policy: Public Expenditure and Debt	Dalton's and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation; Elasticity and	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth Finance Commission,Governm	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Determination of Tax Burden		ent of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** October **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Canons of Public Expendituree
- To understand Classification of Public Expenditure
- To understand Meaning and Types of Public Debt
- To understand Concepts of Deficit

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III Fiscal Policy: Public Expenditure and Debt	Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management; Concepts of Deficit	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			the Fourteenth Finance Commission,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Budget of The Government of India
- To understand Components of Public Expenditure
- To understand Appraisal of FRBM Act
- To understandFourteenth Finance Commission Recommendations

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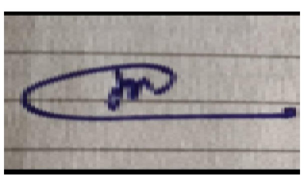
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit IV Indian Public Finance	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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			Finance Commission,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** january **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Structural Changes In Indian Economy;
- Overview on Poverty Alleviation Programmes
- To understand the Measures to Reduce Regional Inequalities in India

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module- I: Introduction (12 Lectures)	Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Role of Agriculture in Economic Development

- To understand Agricultural Price Policy
- Role and Function & Agricultural Marketing
- To understand Sources of Agricultural Finance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module - II: Agricultural Sector	Module - II: Agricultural Sector Role of Agriculture in Economic Development;	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Causes of Low Productivity; Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India		Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Industries and Economic Development
  Recent Policies and Programs for
- Industrial Development
- To understand Role and Trends of FDI
- To understand

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Module -III: Industrial Sector	Infrastructure for Industrial Development; Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:03

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

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NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Role of Service Sector in Indian Economy;
- Research and Development Services With Reference to Education and Skill India
- To understandGrowth and Performance of Healthcare;

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module -IV: Service Sector	Role of Service Sector in Indian Economy; Growth and Performance of Healthcare; Performance of Trade and Tourism, Information Technology	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018)	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	and IT - Enabled Services; Research and Development Services With Reference to Education and Skill India; Performance of Service Sector during XIIth Five Year Plan		'Indian Economy', Himalaya Publishing House, Mumbai.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

- Enable students to apply and analyse issues in the development process.
- • Students will be able to identify the issues related to Growth and Development

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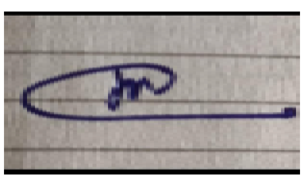
- • Students will be able to understand the policy options and analyzed the Measures taken for the
- Development of an economy.
-

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS - III Module 1: General Equilibrium and Welfare Economics	Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality – The Pareto Optimality Condition of Social Welfare - Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow's Impossibility Theorem		Mankiw, N. Gregory, Principles of Microeconomics, Cengage Learning, 2015.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

- Enable students to apply and analyse issues in the development process.
- • Students will be able to identify the issues related to Growth and Development
- • Students will be able to understand the policy options and analyzed the Measures taken for the
- Development of an economy.
-

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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ECOAME501-ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition	Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly - Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity			CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

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Late Shri. Vishnu Waman Thakur Charitable Trust
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- **TEACHING PLAN (UNIT PLAN)**

- **NAME OF THE STAFF:** Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

- **CLASS:** T.Y.B.A. **SEMESTER:** V **MONTH:** October **ACADEMIC YEAR:** 2022_23

- **LEARNING OBJECTIVE/S:**

Enable students to apply and analyse issues in the development process.

• Students will be able to identify the issues related to Growth and Development

• Students will be able to understand the policy options and analyzed the Measures taken for the

Development of an economy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS -III Module 3: Oligopoly	The Cournot Model - Meaning and Characteristics of Oligopoly Market - Rigid Prices - The Sweezy Model of Kinked Demand Curve - Collusive Oligopoly -	03		CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Cartel: Centralised and Market Sharing Cartel - Imperfect Collusion- Price Leadership Models, Game Theory - Prisoner's Dilemma, Nash Equilibrium and Dominant Strategy Equilibrium			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

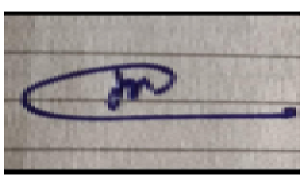
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

Enable students to apply and analyse issues in the development process.



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• Students will be able to identify the issues related to Growth and Development

• Students will be able to understand the policy options and analyzed the Measures taken for the Development of an economy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS -III Module 4: Information Economics	Economics of Search and Search Cost - The Theory of Asymmetric Information-The Market for Lemons and Adverse Selection - Risk Preference and Expected Utility - The Problem of Moral Hazard - Market Signaling - Principal-Agent Problem	03	Mansfield, Edwin, Micro-economics: Theory & Applications, 5th edition,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

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TEACHING PLAN (UNIT PLAN)

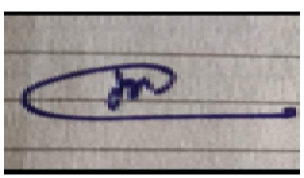
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTRIAL AND LABOUR	Meaning and Scope of Industrial Economics, Industrial Profile : Private sector - Performance and Problems; Cooperatives - features, types, merits and demerits; Public Sector - Role, Performance and Problems, Diversification and Industrial Combinations -	03	Desai S.S.M. and Bhalerao N, Industrial Economy of India,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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ECONOMICS Module 1: Introduction	Motives for Mergers and Acquisitions.		Himalaya Publishing House, Mumbai, 2008. 6	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS Module 2: Industrial Location and Problem of Regional Imbalance	Determinants of Industrial Location, Theories of Industrial Location - Weber's and Sargent Florence's Theories, Dispersion of Industries and the Problem of Regional Imbalance	03	Datt R. and Sundaram K.P.M, Indian Economy, S.Chand& Co., New Delhi, 2009	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** October **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR	Concept and Measurement of Industrial Productivity, Factors Affecting Industrial Productivity, Industrial Sickness - Causes, Effects and Remedial Measures,	03	Barthwal R.R, Industrial Economics, New	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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ECONOMICS Module 3: Industrial Productivity and Industrial Sickness	Rationalisation - Concept, Aspects and Impact		Age International Publishers, NewDelhi,	

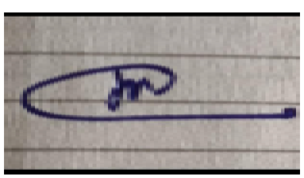
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :



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- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTRIAL AND LABOUR ECONOMICS Module 4: Industrial Development in India	New Industrial Policy, 1991; Disinvestment Policy; FIPB Revamp- Micro, Small and Medium Enterprises Development Act, 2006; National Manufacturing Policy, 2011,Recent Trends in India's Industrial Growth, Industrial Policy, 2012, Role of MNCs in the Indian Economy - Merits and Demerits, Issues in Industrial Proliferation and Environment Preservation; Pollution Control Policies.	03	Agrawal A.N, Indian Economy, New Age International Publishers, New Delhi, 2011.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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		ALLOTED		
INDUSTRIAL AND LABOUR ECONOMICS Module 1 : Introduction – Indian Labour Market	Characteristics of the Indian Labour Market - Child Labour and Female Labour – Problems and Measures- Globalisation and Indian Labour Market -Labour Market Reforms – Exit Policy and Need for Safety Nets - Second National Commission on Labour.	03	Datt R. and Sundaram K.P.M, Indian Economy, S.Chand & Co., New Delhi, 2009.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS Module 2 : Trade Unionism	Definition and Functions of Trade Unions-Historical Evolution of Trade Unions in India and Their Present Status - Problems of Trade Unions in India - Role of Outside Leadership	03	2. Mamoria C.B. and Mamoria S, Dynamics of Industrial Relations, Himalaya	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			Publishing House, Mumbai, 2002.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTRIAL AND LABOUR ECONOMICS Module 3 : Industrial Relations	Causes of Industrial Disputes and Their Settlement Mechanism - Collective Bargaining – Concept, Features, Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India - Workers" Participation in Management –Concept, objectives and Forms of Workers" Participation in India.	03	Mishra S.K. and Puri V.K, Indian Economy, Himalaya Publishing House, Mumbai,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

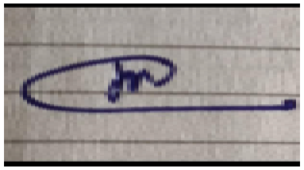
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS	Concept, Theories and Principles of Labour Welfare - Agencies for Labour Welfare - Role of the Labour Welfare Officer - Social Security – Concept; Social Assistance and Social Insurance - Social Security Measures in India - International Labour Organization	03	Monappa A, Industrial Relations, Tata McGraw Hill	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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SIGNATURE OF THE H.O.D.

Module 4 : Labour Welfare and Social Security	and Its Impact on Indian Labour Legislations.		Publishing Company Ltd., New Delhi, 2006 5.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** June **ACADEMIC YEAR:** 2022_23

LEARNING Outcomes:-

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 1,: Entrepreneurship**	Concept of an entrepreneur and entrepreneurship, qualities of the successful entrepreneurs- role and functions of entrepreneurs in economic development- factors influencing entrepreneurship- Challenges before women entrepreneurship	04	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Potentials – Deep & Publications 1999 2. Desai Vasant, Dynamics of Entrepreneurial Developme	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

			nt and Manageme nt, Himalaya Publicatio	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** July **ACADEMIC YEAR:** 2022_23

LEARNING Outcomes:-

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module2: Starting a new venture**	**Project identification - selection and formulation, Registration of small scale industries - project report -** **Sources of finance for a business - Export documents and trends of small enterprises- major constraints in** **export performance.**	**Starting a new venture**	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Potentials – Deep & Publications 1999 2. Desai Vasant, Dynamics of Entrepreneurial Developme	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			nt and Management, Himalaya Publicatio	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 3: Small scale industries**	Meaning and scope of small scale industries, importance of small scale industries, problem faced by small scale industries, SWOT analysis for small scale industries, forms of business organizations: Sole proprietorship – Features, advantages & disadvantages. Partnership - Features, advantages &	04	Khushpat S. Jain House Export Import Procedures and Documentation' Himalaya Publishing House 5. Murthy C.S.V. Small Industries	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	disadvantages. Joint stock Company – Features, advantages & disadvantages. Co-operative – Features, advantages & disadvantages.		& Entrepreneurship Development, Himalaya Publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

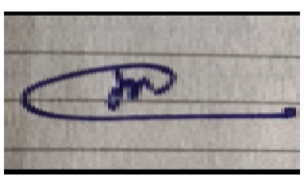
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**



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- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 4: Management and incentives for small scale industries**	Fundamentals of management: productions and operations management- working capital management, marketing management - Human resource management- Total quality management - Management information system- Incentives to small scale industries.	04	Singh P.N. and Saboo J.C., Entrepreneurship Management, P.N.Singh Centre	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** December **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 1: Post Keynesian Synthesis	Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment- Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Philips Curve - Adaptive Expectations and Rational Expectations.	04	Blanchard, Oliver (2008), Macroeconomics, Pearson education, New Delhi, India. 2. Dornbusch, Fisher and Startz (2018): Macroeconomics, McGraw Hill Education	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

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			(India) Pvt. Ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 2: Trade Cycles	Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.	04	Mankiw N Gregory (2003), Macroeconomics, 6" edition, Worth Publishers, New York. 4. Patil J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			Prakashan, Kolhapur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 3: Exchange Rate Regimes and Currency Crises	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency - Currency Crisis-Causes, Impact and Measures.	04	til J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur. 5. Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			CO. Jalandhar. 6. Salvatore D. (1997), International Economics, Printice Hall, New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

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.Identify and define basic terms and concepts of insurance

• Describe the importance of insurance for an individual and the economy

• Understand the concept of risk and its types, and the process of risk management.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III **Module 4: International Monetary System**	Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro-Currency Market - Causes and Consequences of Global Economic Crisis	02	til J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	- Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) - New Development Bank (NDB): Asian Development Bank (ADB)		5. Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar. 6. Salvatore D. (1997), International Economics, Printice Hall, New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- **the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development**
- Describe the importance of rural development the economy
- Understand the problems of rural development

Course Outcomes
• On the completion of the course, the students will be able to understand the basic Concept of rural development.
• Learners will also be understanding objectives and importance of rural development.
• Learners will have good understanding of problems in relation of rural development.
• Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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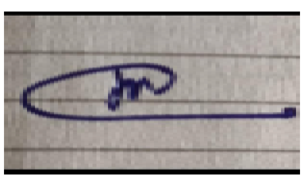
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604 **RURAL DEVELOPMENT. :-** **Module 1: Rural Development: Introductory Aspects**	Concept, Nature and Scope of Rural Development, Charactersties of the Rural Economy, Objectives and Importance of Rural Development, The problems of Rural Development in India	04	Datt & Sundharam (2012), Indian Economy, S. Chand & Company LTD. Mumbai. 4. Desai Vasant (2012), Rural Developmen	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

			t in India, Himalaya Publishing House, Mumbai. 5. Dr. I. Satya Sundaram (2002), Rural Development, Himalaya Publishing House, Mumbai. Page No. 3	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- **Learners will have good understanding of problems in relation of rural development**
- Identify the verious approach of rural development
- Evaluation of verious approach to rurul development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604		04	Datt & Sundharam	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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RURAL DEVELOPMENT. :- **Module 2: Approaches to Rural Development**	Gandhian Approach, Rural Reconstruction Approach, Community Development Approach, Sectoral Approach, Participatory Approach, Area-Specific and Target Group Oriented Approach, Integrated Rural Development and Economic Development with Social Justice Approach		(2012), Indian Economy, S. Chand & Company LTD. Mumbai. 4. Desai Vasant (2012), Rural Development in India, Himalaya Publishing House, Mumbai. 5. Dr. I. Satya Sundaram (2002), Rural Development,	

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Late Shri. Vishnu Waman Thakur Charitable Trust
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			Himalaya Publishing House, Mumbai. Page No. 3 to 24 6. Eleventh Five Year Plan 2007-12, Planning Commission, Government of India, New Delhi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Identify and importans of the livestock economics
- Described agro based industries
- Understand the role of kvic

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604 **RURAL DEVELOPMENT. :-**	Livestock economics, Dairy Development, Social Forestry, Agro-Based Industries: Problems &	04	Annual Report 2019-20, 2018-19 & State performanc	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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Module 3: Diversification of Rural Economy	Remedial Measures, Role of KVIC in Rural Development, Recent Development of Science & Technology in Rural Development.		e report-2018-19 and Action plan 2019-20, Volume-I, Ministry of Rural Development, Department of Animal Husbandary & Dairying, Government of India, New	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Learners will come to know rural development programmes have initiated by the government to

- **overcome the problems of rural development**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604	An Overview of Rural Development Programmes, Provisions of Urban Amenities in Rural Area (PURA),	04	Eleventh Five Year Plan 2007-12,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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RURAL DEVELOPMENT. :- **Module 4: Rural Empowerment Programmes**	Rural Employment: Mahatma Gandhi National Rural Employment Guarantee Act -2005 (MGNREGA), Rural Livelihoods: Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM), National Social Assistance Programme (NSAP), Microfinance and Self-help Groups		Planning Commission, Government of India, New Delhi. Thomas William and A.J. Christopher (2011), Rural Development: Concept and Recent Approaches, Rawat Publication, Jaipur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil   DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI)   SEMESTER: JULY   MONTH: JUL-DEC   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The very purpose of this course is to provide information about the biography and contribution of the most influential economists who influenced the economic fraternity and to whom we are obliged to for shaping up the economic thought process

THE LEARNERS WILL BE ABLE TO: BASIC UNDERSTANDING ABOUT THE CELEBRATED ECONOMISTS AND THEIR CONTRIBUTIONS STARTING FROM THE CLASSICAL PERIOD. (ADAM SMITH,RICARDIO,KARL MARX)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

R.P.Patil

SIGNATURE OF THE STAFF

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ECO IX : HISTORY OF ECONOMIC THOUGHT Module 1: Classical Economics	Mercantilism and Physiocracy: Introduction -Adam Smith: Liberalism -Division of Labour -Theory of Value - David Ricardo: Rent Theory- Wage Theory - Theory of Value- Karl Marx: Surplus Value Materialistic Interpretation of History -Scientific Socialism.	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. Dr.Kulkarni S.P," Aarthik Vichargatha", Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: AUGUST ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

THE VERY PURPOSE OF THIS COURSE IS TO PROVIDE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF THE MOST INFLUENTIAL ECONOMISTS WHO INFLUENCED THE ECONOMIC FRATERNITY AND TO WHOM WE ARE OBLIGED TO FOR SHAPING UP THE ECONOMIC THOUGHT PROCESS

THE LEARNERS WILL BE ABLE TO:

R.P.Patil

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THE CELEBRATED ECONOMISTS AND THEIR CONTRIBUTIONS STARTING FROM THE CLASSICAL PERIOD. (MARSHALL TO SCHUMPETER)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT **Module 2: Neo-Classical Economics**	Alfred Marshall : Thought on Value - Representative Firm - Consumer's Surplus - Internal and External Economies-Quasi Rent - Schumpeter: Economic Development And Innovation- Pigou :Welfare Economics.	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta",** Diamond Publications	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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SIGNATURE OF THE H.O.D.

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Yashwant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil   DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI)   SEMESTER: V   MONTH: SEPTEMBER   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

THE VERY PURPOSE OF THIS COURSE IS TO PROVIDE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF THE MOST INFLUENTIAL ECONOMISTS WHO INFLUENCED THE ECONOMIC FRATERNITY AND TO WHOM WE ARE OBLIGED TO FOR SHAPING UP THE ECONOMIC THOUGHT PROCESS

THE LEARNERS WILL BE ABLE TO:

CONTRIBUTIONS OF KEYNES IN ECONOMICS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IX : HISTORY OF ECONOMIC THOUGHT **Module 3: Keynesian Ideas**	Employment Theory- Money- Wage Rigidity Model- Multiplier and accelerator and their interaction - Trade Cycle - Inflation -Role of Fiscal Policy - Keynesian Economics and Developing Countries	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha",** Shree Sainath Prakashan, Nagpur	Group Discussion,PPT ,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS
CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-2023

R.P.Patil

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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LEARNING OBJECTIVE/S:

THE VERY PURPOSE OF THIS COURSE IS TO PROVIDE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF THE MOST INFLUENTIAL ECONOMISTS WHO INFLUENCED THE ECONOMIC FRATERNITY AND TO WHOM WE ARE OBLIGED TO FOR SHAPING UP THE ECONOMIC THOUGHT PROCESS

THE LEARNERS WILL BE ABLE TO: FOCUS ON POST KEYNESIAN ECONOMICS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT Module: 4 Post Keynesian Economics	Post-Keynesian Economics Supply Side Economics -Hayek's Theory of Trade Cycle- Life Cycle theory Consumption- Friedman: Theory of Demand for Money - Long-Run Philips Curve - Mankiw's New Keynesian Model - Stagflation.	12	. **Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication.	Group Discussion, PPT,Quiz

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			Dr.Kulkarni S.P," Aarthik Vichargatha", Shree Sainath Prakashan, Nagpur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO:

Students get familiarized with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : **HISTORY OF ECONOMIC THOUGHT-II Module 1: Indian Economic Thought**	Kautilya on welfare state -Dadabhai Naoroji's Thoughts on Drain Theory- Ranade's Case on Protection - R. C. Dutt on Imperialism - Land Tax and Public Finance - Gopal Ganesh Agarkar.	06	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha**", Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO: FOCUS ON MAHATMA PHULE' S AGRICULTURE VIEW & GANDHIAN THOUGHT

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
ECO IX : **HISTORY OF ECONOMIC THOUGHT-II**	Mahatma Phule's Views on Agriculture - Reasons of Farmer's Poverty - Gandhian Economic Thoughts on Self-Sufficient Village Economy - Dignity of Labour – Trusteeship - and Sarvodaya	06	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas'**, Vidya books publishers.	Group Discussion, PPT,Quiz

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Module 2: Economic Thought of Mahatma Phule and Gandhi			**Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha"**, Shree Sainath Prakashan, Nagpur	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THIS PAPER AIMS TO PROVIDE THE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF VARIOUS ECONOMIC THINKERS. THIS PAPER IS FRAMED WITH THE OBJECTIVE OF MAKING STUDENTS AWARE OF THE VARYING PHASES OF ECONOMIC THOUGHTS AND DEVELOPMENT OF THAT INTO ECONOMIC SCIENCE.

THE LEARNERS WILL BE ABLE TO:

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CONTRIBUTIONS OF DR. B.R. AMBEDKAR AND DR.MANMOHAN SINGH IN ECONOMICS.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
ECO IX : HISTORY OF ECONOMIC THOUGHT-II Module 3: Economic Thought of Dr. B.R. Ambedkar, G.K. Gokhale and Dr. Manmohan Singh	Dr. Ambedkar's Case for State Socialism - Problem of Rupee - Public Finance – G.K. Gokhale on Development and Welfare - Dr. Manmohan Singh's ' Three Steps' to Stem India's Economic Crisis	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr. Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha",** Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

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			Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta", Diamond Publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO:

KNOW CONTRIBUTION OF NOBEL PRIZE WINNER ECONOMIST.

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT-II Module 4: Nobel Prize Winners in Economics	Dr. Amartya Sen (1998) , Robert. A. Mundell (1999) , Joseph Stiglitz(2001) , Dr. Abhijeet Banarjee (2019)	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas'**, Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha"**, Shree Sainath Prakashan, Nagpur Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta", Diamond Publications	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I	Definition of Insurance, Characteristics of Insurance, Principles of Insurance, Distinction between		Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	

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Module 1: Introduction	Assurance and Insurance .	04	https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

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THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I **Module 1: Introduction**	Purpose and need of insurance, Functions of Insurance, Classification of Insurance, Limitations of Insurance.	08	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE COURSE IS DESIGNED TO PROVIDE AN UNDERSTANDING OF THE FUNDAMENTALS OF INSURANCE. WITH THE OPENING OF THE INSURANCE SECTOR TO PRIVATE PLAYERS, THE INTEREST IN THE SUBJECT HAS INCREASED. THE PAPER ON ECONOMICS OF INSURANCE ATTEMPTS TO PROVIDE A FAIRLY COMPREHENSIVE VIEW OF THE SUBJECT TO THE UNDERGRADUATE STUDENTS IN ECONOMICS.

THE LEARNERS WILL BE ABLE TO:

KNOW RECENT TRENDS IN INSURANCE SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/

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				ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I **Module 3: Recent Trends in Insurance Sector**	Insurance and economic development, Insurance institutions as financial intermediaries; insurance institution as investment institution; Growth & Performance of Public & Private Insurance Companies in India: Life and Non-Life sector including foreign collaborations;	06	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

FOCUS ON GOVERNMENT POLICIES IN INDIA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I	Disinvestment of LIC, Listing of Public & Private Insurance companies in Stock market; Government policies in insurance – Ayushman Bharat	06	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion,

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Module 3: Recent Trends in Insurance Sector	Yojna, Pradhan Mantri Suraksha Bima Yojna, Pradhan Mantri Jeevan Jyoti Bima Yojna.		https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

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THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of life, health & general insurance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 1: Introduction to Life Insurance**	Meaning and Definition, Features of Life Insurance, Benefits of Life Insurance - Method of risk classification in Life Insurance - Treatment of Sub-standard risk in Life Insurance - Types of life insurance policies -Term insurance plan, Endowment policy - ULIP plan - Retirement plan -	05	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPt,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE COURSE IS DESIGNED TO PROVIDE AN UNDERSTANDING OF THE FUNDAMENTALS OF INSURANCE. WITH THE OPENING OF THE INSURANCE SECTOR TO PRIVATE PLAYERS, THE INTEREST IN THE SUBJECT HAS INCREASED. THE PAPER ON ECONOMICS OF INSURANCE ATTEMPTS TO PROVIDE A FAIRLY COMPREHENSIVE VIEW OF THE SUBJECT TO THE UNDERGRADUATE STUDENTS IN ECONOMICS.

THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of life, health & general insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/

R.P.Patil

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				ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 1: Introduction to Life Insurance**	Calculation of net Premium - Calculation of single premium for one year term insurance policy - Calculation of single premium for five year term policy - Calculation of single premium for pure endowment insurance policy and calculation of single premium for ordinary endowment policy.	07	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion, PPt,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO: FOCUS ON INSURANCE ACT AND IRDAI

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 3: IRDAI & Rural Insurance**	The Insurance Act, 1938 (as amended)-The Insurance Regulatory and Development Authority Act, 1999 (as amended) -The Regulatory Body- IRDAL duties-functions-powers and role-	12	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, Chalk & Board,Quiz

R.P.Patil

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

KNOW FUNCTIONS OF IRDAI AND RURAL INSURANCE

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 3: IRDAI & Rural Insurance**	Rural Insurance: Need and potential of rural insurance - IRDAI provisions on obligations of insurers to rural and social sectorNeed and significance of Micro Insurance	12	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion, Chalk & Board Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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R.P.Patil

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Enables students to get knowledge on new market structure, imperfect competition.

.THE LEARNERS WILL BE ABLE TO:
Provides understanding on the welfare economics and economics of information

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III **Module 1: General Equilibrium and Welfare Economics**	Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality – The Pareto Optimality Condition of Social Welfare	02	**Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra',** Prashant Publications.	Group Discussion, PPT,Quiz

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MICROECONOMICS - III **Module 1: General Equilibrium and Welfare Economics**	Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow's Impossibility Theorem	10	**Dr. Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra',** Prashant Publications. Prof.Deshmukh Ram,'Aadhunik Sthul Arthashastra', Vidya books publishers.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

Enables students to get knowledge on new market structure, imperfect competition.

.
THE LEARNERS WILL BE ABLE TO: Focus on Monopoly

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition	Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly	06	**Dr. Zamre G.N. ,'Sukshma Arthashastriya Vishleshan'**. **Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra'**, Prashant Publications.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Enables students to get knowledge on new market structure, imperfect competition.

.
THE LEARNERS WILL BE ABLE TO: REGULATION OF MONOPOLY AND FOCUS ON MONOPOLISTIC COMPETITION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT

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				TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition (14 Lectures)	Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity	06	**Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra', Prashant Publications.** **Prof Dr.Dhamdhere S.V.,'Sukshma Arthashastra'**, Diamond publications.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

To make students aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles.

Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System

THE LEARNERS WILL BE ABLE TO:

understand various aspects of Trade Cycles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV:	Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles			

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ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**		04		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPTS OF REAL EXCHANGE RATE , FISCAL & EXCHANGE RATE POLICY

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**	Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles	08		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF EXCHANGE RATE REGIMES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MACROECONOMICS - III **Module 3: Exchange Rate Regimes and Currency Crises**	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility- Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System	07		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: ECONOMIC CRISES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III **Module 3: Exchange Rate Regimes and Currency Crises (12 Lectures)**	Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency Currency Crisis-Causes, Impact and Measures.	05		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL DEPARTMENT: ECONOMICS CLASS: T.Y.B.A.(MARATHI) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 1: Meaning of Economic Growth and Development**	**Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I.**	**12**	. **Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik**	**PPTs, Group Discussion**

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			Vrudhi aani Vikasache Arthashastra', Sheth publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: V** **MONTH: AUGUST**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS CONCEPTS OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 1: Meaning of Economic Growth and Development**	**G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs**	**12**	. **Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',** Sheth publications	**PPTs, Group Discussion, Quiz**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

R.P.Patil

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NAME OF THE STAFF:Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: V** **MONTH: SEPTEMBER**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS THEORIES OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 2: Theories of Economic Development**	**Rostow's Stages of Growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis – Harrod – Domar Growth Model**	**12**	**Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',**	**PPTs, Group Discussion, Quizzes**

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			Sheth publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: V** **MONTH: OCTOBER**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS THEORIES OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 2: Theories of Economic Development**	**– Lewis Model of Unlimited Supply of Labour – Ragner Nurske's Theory of Disguised Unemployment- Schumpeter's Theory of Development**	**12**	**Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',** Sheth publications	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MRS. RUPALI PRASHIL PATIL DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 1: Introduction to Trade Theories**	Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade – Ricardian theory of comparative cost difference Heckscher - Ohlin Theory- Leontief's Paradox- Krugman's Model	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS:** T.Y.B.A. (MARATHI) **SEMESTER:** VI **MONTH:** JANUARY

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: Module 2: Balance of Trade and Balance of Payment	Concepts of Terms of Trade(Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand-Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy	12	Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra', Success Publications. Dr. Dhamdhere S.V,'Aantarrash	PPTs, Group Discussion, Quizzes

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			riya Arthashastra', Diamond publications.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: VI** **MONTH: FEBRUARY**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 3: Foreign Exchange Market**	**Meaning and Functions of Foreign Exchange Market-Exchange rate determination, Factors influencing foreign exchange rate-Managed Flexibility-SWAP Market, Components of foreign exchange reserves Foreign Aid Vs Foreign Trade, FDI and MNCs**	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 4: International Economic Institutions and Economic Integration**	**IMF, World Bank - Role and functions-WTO-Objectives, Functions and Agreements with respect to TRIPS,TRIMS, GATS, AoA - Forms and objectives of Economic Integration-Cartels-Trade Blocs, ASEAN-European Union (EU)- NAFTA and SAARC.**	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Patil DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (MARATHI) SEMESTER: III MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING OF MACROECONOMICS AND CONCEPTS OF NATIONAL INCOME

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE I: Introduction to	Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposal Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income: Closed Economy (Two	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition,	Group Discussion,, PPT, QUIZ

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Macro Economics and National Income	and Three Sector) and Open Economy Models (Four Sector Model)		Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: RELATIONSHIP AMONG INCOME, CONSUMPTION, SAVINGS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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		ALLOTTED		
ECO II:MACRO ECONOMICS I MODULE II: Consumption and Investment	Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: DEMAND AND SUPPLY OF MONEY

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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		ALLOTTED		
ECO II:MACRO ECONOMICS I MODULE III: Supply of Money and Demand for Money	Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: FUNCTIONS OF BANK

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: Banking	Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy,	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12
LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
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VIVA COLLEGE, Virar (W)
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ECO II: MACRO ECONO MICS II MODUL E I: Inflation	Module - I: Inflation The Economics of Depression, Hyper Inflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroecono mics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroecono mics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOII: MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:Post Keynesian Economics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOII: MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory	Group Discussion, PPT, QUIZ

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			and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II: MACRO ECONO MICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroecono mics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroecono mics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. Rupali Prashil Patil** DEPARTMENT: ECONOMICS

CLASS: SY.B.A. (MARATHI) SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: EDUCATE THE STUDENTS ABOUT THE UNIQUE POSITION OF DEMOGRAPHY AMONG VARIOUS BRANCHES OF POPULATION SCIENCE.IT ALSO THROWS LIGHT ON VARIOUS POPULATION THEORIES,MEASURES AND THE TRENDS IN GROWTH OF POPULATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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Demography **Unit-1** **Introduction**	How demography is different from population science Applications in other disciplines Demography-Its definition, nature & Scope. It's relation with other disciplines. .	08	BhendeA.A.&TaraKanitkar(1982)–'PrinciplesofPopulationStudies'–HimalayaPublishingHouse,Bombay. Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad.	Group Discussion ,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KNOW VARIOUS THEORIES OF POPULATION & TRENDS IN GROWTH OF POPULATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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Demography **Unit-1** **Introduction**	Theory of Population-Malthus Theory. Optimum theory of Population Theory of demographic transition. Trends in population growth-Developed Vs Developing Countries. Features of Indian Population.	08	Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad. GovernmentofIndia–(VariousReports),CensusofIndia,NewDelhi.Ahirrao‑Alizad‑Dapte‑Varat‑Bhose(2001)–'Loksankhya'–NiraliPublication,Pune.	Group Discussion ,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: EDUCATE THE STUDENTS ABOUT THE CONCEPT OF FERTILITY AND MORTALITY

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-3 **Basic concepts of measures**	Concept related to fertility and mortality Crude birth rate & death rate. Age specific birthrate & death rate Standardized birth rate &death rate.	08	Dr.D.D.Kachole(2001)–'Demography' –KailashaPublication,Aurangabad GovernmentofIndia–(VariousReports),CensusofIndia,NewDelh	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KNOW MEASURES OF BIRTH RATE AND DEATH RATE

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-3 **Basic concepts of measures**	Standardize birth rate Standardize death rate Methods to rectify the errors in Age data-Whipples Index, Myers Index ,UN Method- Relative merits and demerits	08	Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad GovernmentofIndia–(VariousReports),CensusofIndia,NewDelh	Group Discussion,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF MORTALITY & LIFE TABLE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Demography Unit-1 **Fertility,Nuptiality & Mortality**	Mortality_Concept&Factorsaffecting mortality. LifeTable-Concept Its Importance,	08	Dr. D.D.Kachole (2001) – 'Demography' – Kailasha Publication, Aurangabad. Ahirrao-Alizad-Dapte-Varat-Bhose (2001) – 'Loksankhya' – Nirali Publication, Pune.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF NUPTIALITY AND MORTALITY.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-2 **Migration Urbanization**	Nuptiality- Concept & Factors Affecting Nuptiality Mortality- Concept & factors Affecting Mortality	08	.Dr. D.D.Kachole (2001) – 'Demography' – Kailasha Publication, Aurangabad. Ahirrao-Alizad-Dapte-Varat-Bhose (2001) – 'Loksankhya' – Nirali Publication, Pune.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: KNOW CONCEPT OF MIGRATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-2 **Migration Urbanization**	Migration-Concept Types FactorsaffectingMigration TheoryofMigration(Harris&TodaroModel) Issues Related To Migration	10	Dr. D.D.Kachole (2001) – 'Demography' – Kailasha Publication, Aurangabad. Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan', Shree Mangesh Prakashan, Nagpur.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:

URBANIZATION AND PROBLEMS OF URBANIZATION IN INDIA.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-3	Urbanization_Concept,Trends pattern of Urbanization in India. Problems ofUrbanizationinIndia.(Poverty,Goods Supply,Water,Sanitation,housing,Slimarea,Employment,health,education,transport,environmental degradation	06	Dr. D.D.Kachole (2001) – 'Demography' – Kailasha Publication, Aurangabad. Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan', Shree Mangesh Prakashan, Nagpur.	Group Discussion,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: ARTS CLASS: SYBA

SEMESTER: III MONTH: June to August History Paper: III ACADEMIC YEAR 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To enable the students to think critically, understand their past and develop interest in historical matters.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ancient India Module 1 Sources of Ancient India and their importance.	a. Archaeological b. Literary c. Foreign travellers	12	Dr. Eugene D'Souza: Ancient India	Explanation with illustrations Story Narration Discussion method

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Module 2 Indus Valley Civilization.	a. Social and economic life b. Religious life	10	A.L Bhasham: Wonder that was India.	Explanation with illustrations Story Narration Discussion method
	ALLOCATED TO THE UNITS 22			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Ms.Mala Khanchandani DEPARTMENT: Arts CLASS: T,Y.B.A SEMESTER: V

MONTH: June to August HISTORY PAPER VI ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To analyze archaeological artifacts as a source of information about other cultures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 Aims and methods of archaeology	A. Definition, aims and development of archaeology in India. B. Archaeology and History, archaeology and other sciences. C. Field archaeology; Methods of exploration, excavation	10	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	Explanation with illustrations Story Narration Discussion method
	ALLOCATED TO THE UNIT: 10			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchadani DEPARTMENT: Arts CLASS: S.Y.B.A SEMESTER: IV

MONTH: January to March ACADEMIC YEAR: 2022-2023 History Paper II

LEARNING OBJECTIVE/S:
The learners will be able to :

To enable the students to understand the political, socio-economic, and cultural development of ancient period and to appreciate the rich cultural heritage of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Inter war Period	A. Kemal Pasha & Modernization of Turkey B. Reza Shah & Reforms in Iran C. Birth of Israel	8	Dr. Eugene D Souza	❖ Explanation with examples
Module 2 Rise of Dictatorships	A. Fascism B. Nazism C. Militarism in Japan	7	Dr. Eugene D Souza	❖ Explanation with examples
	A. World War II B. The Atlantic Charter	6	Dr. Eugene D Souza	❖ Explanation with examples

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Module 3 World War II & Efforts for Peace	C. United Nations Organization			
Module 4 Major Dynasties of Deccan and South India	A. Dr. Sun-Yat-Sen and China B. Mahatma Gandhi and India C. Dr. Sukarno and Indonesia	6	Dr. Eugene D Souza	❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchadani DEPARTMENT: Arts CLASS: S.Y.B.A SEMESTER: IV

MONTH: January to March HISTORY PAPER III ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To enable the students to understand the political, socio-economic, and cultural development of ancient period and to appreciate the rich cultural heritage of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ancienr India Module 1 Mauryan and post mauryan period	A. Chandragupta and Ashoka B. Mauryan Administration C. Post Mauryan Dynasties- Sungas, Kushana and Satavahans.	8	Dr. Eugene D'Souza: Ancient India	❖ Explanation with examples
Module 2 Gupta Age	A. Imperial Expansion: Chandragupta 1, Samudragupta and Chandragupta II. B. Administration C. Classical Age	7	A.L Bhasham: Wonder that was India.	❖ Explanation with examples

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Module 3 Post Gupta period	A. The age of Harshvardhan B. The rise of Rajputs C. Arab Invasion of Sind	6	A.L Bhasham: Wonder that was India.	❖ Explanation with examples
Module 4 Major Dynasties of Deccan and South India	A. Chalukyas of Badami and Rashtrakutas B. Pallavas and Cholas C. Spread of Indian Culture in South East Asia	6	A.L Bhasham: Wonder that was India.	❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Arts CLASS: T.Y.B.A SEMESTER: VI

MONTH: January to March HISTORY PAPER VI ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To take up the responsibility for preserving an object or heritage and making it accessible.

To survey, acquire and scientifically preserve records of historical values from autonomous bodies, private institutions and individuals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Museology and Archival Science Module 1 Museology	i) Definition of Museology, museum movement in India. ii) Role of curator iii) Types of Museums	8	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 2 Museums	i) Methods of collection and conservation of objects in museums. ii) Preservation techniques and types of exhibitions. iii) Changing roles of museums: In-house and out-	7	Dr. Ranade Dr. Samel Dr. Nabar:	❖ Discussion ❖ Explanation with examples

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	reach activities of museums.		Introduction to Archaeology	
Module 3 Archival Science	i) Meaning, scope, objectives and classes of archives. ii) Importance of archives : Value of record as a source of history. iii) Classification of records	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 4 Management of Archives	i) Appraisal and retention of records. ii) Conservation and preservation of records. iii) Digital archives	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples ❖

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Arts CLASS: T.Y.B.A SEMESTER: VI

MONTH: January to March HISTORY PAPER VI ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To take up the responsibility for preserving an object or heritage and making it accessible.

To survey, acquire and scientifically preserve records of historical values from autonomous bodies, private institutions and individuals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Museology and Archival Science Module 1 Museology	i) Definition of Museology, museum movement in India. ii) Role of curator iii) Types of Museums	8	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 2 Museums	i) Methods of collection and conservation of objects in museums. ii) Preservation techniques and types of exhibitions. iii) Changing roles of museums: In-house and out-	7	Dr. Ranade Dr. Samel Dr. Nabar:	❖ Discussion ❖ Explanation with examples

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	reach activities of museums.		Introduction to Archaeology	
Module 3 Archival Science	i) Meaning, scope, objectives and classes of archives. ii) Importance of archives : Value of record as a source of history. iii) Classification of records	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 4 Management of Archives	i) Appraisal and retention of records. ii) Conservation and preservation of records. iii) Digital archives	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:** GROWTH OF POLITICAL AWAKENING	(A) Revolt of 1857- Causes & Consequences	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	(B) Contribution of Political Associations	04		
	(C) Foundation of Indian National Congress	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh Swtantra Bhartacha Itihas	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

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			Dr.Suman Vaidya & Dr. Shanta Kothekar	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-A)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023 b**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:**	(A) Revolt of 1857- Causes & Consequences	04	**Modern India** By Dr. Eugene	Google Meet, Google Classroom,
	(B) Contribution of Political Associations	04		

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GROWTH OF POLITICAL AWAKENING	(C) Foundation of Indian National Congress	04	D’Souza	PPT Presented Online Map, You Tube Video.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	**Modern India** By Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	Modern India **Modern India** By Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-B)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:** GROWTH OF POLITICAL AWAKENING	(A) Revolt of 1857- Causes & Consequences	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	(B) Contribution of Political Associations	04		
	(C) Foundation of Indian National Congress	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-B)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :IV THE INDIAN CONSTITUTION	The Constitution as set out in the Preamble	03	**FOUNDATION COURSE I Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare**	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	The Structure of the Constitution	03		
	Fundamental Duties of the Indian Citizen	02		

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	Basic Feature of the Constitution	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :V SIGNIFICANT ASPECTS OF POLITICAL PROCESSES	The Party System in India Politics	03	**FOUNDATION COURSE I Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare**	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Local Self Government in Urban Rural Areas	03		
	The 73rd and 74th Amendments and Their Implication for Inclusive Politic	02		
	Role and Significance of Women in Politics	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURE

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(DIV- A) SEMESTER: III**

MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD MODULE I: SOURCES OF ANCIENT INDIA AND THEIR IMPORTANCE	Archaeological	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Literary	04		
	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: VEDIC AGE	Janapada	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6^{TH} CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(DIV- B)** **SEMESTER: III**

MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD MODULE I: SOURCES OF ANCIENT INDIA AND THEIR IMPORTANCE	Archaeological	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Literary	04		
	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: VEDIC AGE	Janapada	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6^{TH} CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA- ENGLISH**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I: AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

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NAAC accredited "B" Grade, 2.69 CGPA

TITLE		LECTURES ALLOTTED		TOOLS USED
MODULE II: PRE-HISTORIC, PROTO-HISTORIC AND EARLY HISTORICAL PERIODS	Palaeolithic and Mesolithic Periods	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Dr. Eugene D’Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		
	Contribution of Numismatics to Indian History	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: **MS. JANHAVI NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: VI MONTH: **JANUARY TO MARCH** ACADEMIC YEAR 2022 **- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THEMSELVES WITH THE HISTORY OF INDIA SINCE THE EMERGENCE OF THE MUGHAL RULE. TO UNDERSTAND ADMINISTRATION OF THE MUGHAL EMPIRE. TO STUDY THE RISE OF THE MARATHA POWER**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA MODULE I: FOUNDATION EXPANSION & DECLINE OF MUGHAL RULE	• India on the Eve of Mughal Rule: • Invasion of Babur	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Humayun • Sher Shah • Akbar	04		
	• Jehangir • ShahJahan • Aurangzeb	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE MUGHALS	• Central Administration • Provincial Administration	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Mansabdari System •	04		
	• Judicial System • Revenue System	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: RISE OF THE MARATHA POWER	• Shivaji & Foundation of Swarajya	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Administration of Shivaji •	04		
	• Sambhaji • Raja ram • Tarabai	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	• Society • Economy	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Religion • Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: I**MS. JANHAVI NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: VI MONTH: **JANUARY TO MARCH** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE PROCESS OF MAKING THE CONSTITUTION AND THE INTEGRATION AND REORGANIZATION OF INDIAN STATES. TO ACQUAINT THE STUDENTS WITH THE POLITICAL DEVELOPMENTS IN INDIA AFTER INDEPENDENCE. TO COMPREHEND THE SOCIO-ECONOMIC CHANGES AND PROGRESS IN SCIENCE AND TECHNOLOGY IN INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: : HISTORY OF CONTEMPORARY INDIA MODULE I:	Features Of The Indian Constitution	04	History Of Contemporary India (1947-2000)	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p,
	• Integration of States • Reorganisation of States	04		

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THE NEHRU ERA 1947-1964			By Dr. Eugene D'souza	You Tube Video.
	• Socio-economic reforms • Foreign policy	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1964-1984	• Political Developments After Nehru • Green Revolution	04	History Of Contemporary India (1947-2000) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	• Abolition of Privy Purses • Nationalisation of Banks • Emergence	04		
	• Janata Government • Return of Congress	04		

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	• Foreign Policy			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1984-2000	• Political Developments	04	History Of Contemporary India (1947-2000) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	• Relations with Foreign Countries •	04		
	• Globalisation	04		

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	• Liberalisation • Privatisation			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGING TRENDS	• Communalism • Separatists Movements	04	History Of Contemporary India (1947-2000) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Empowerment of Women • Policy of Reservation	04		
	• Science • Technology • Education	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: : **DR. DIPALI CHPUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(MARATHI)**

SEMESTER: III MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: **ANCIENT India** **EARLIEST TIMES TO 1000AD** **MODULE I:** SOURCES OF ANCIENT INDIA AND THEIR	Archaeological	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh Prachin Bharat- Dr. S.G.Kolalkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Literary	04		
	Foreign Travellers	04		

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SIGNATURE OF THE H.O.D.

IMPORTANCE				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

Janharinaik

SIGNATURE OF THE H.O.D.

MODULE III: VEDIC AGE	Janapada	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video You Tube Video
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6TH CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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		ALLOTTED		
HISTORY IV: MEDIEVAL INDIA **MODULE I:** **FOUNDATION EXPANSION & DECLINE OF DELHI SULTANATE**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Rise and Decline of Slave Dynasty • Khilji Dynasty	04		
	• Tughlaq Dynasty • Sayyid Dynasty • Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	• Central Administration • Iqta System	04	Madhya Yugin Bharat	

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MODULE II: **ADMINISTRATIVE STRUCTURE OF THE SULTANATE**	• Administrative & Military Reforms of Alauddin Khilji	04	By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Reforms of Firoz Shah Tughlaq • Reforms of Mohammad Bin Tughlaq	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: **EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS**	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: **SOCIETY, ECONOMY, RELIGION & CULTURE**	Socio-Economic & Religious Life	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA MARATHI**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF MODERN MAHARASHTRA	Socio-Economic Conditions in Maharashtra in the 19th Century	04	Adhunik Maharashtra	Google Meet, Google Classroom, PPT Presented
	• Administration	04		

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MODULE I: **BEGINNING OF BRITISH RULE**	• Judiciary		By Prakash Javdadekar	Online Map, You Tube Video
	• Tribal Uprisings • Peasant Movements	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: **SOCIO-ECONOMIC AWAKENING**	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04	Adhunik Maharashtra By Prakash Javdadekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: POLITICAL DEVELOPMENTS IN	• Moderates • Extremists • Revolutionary Nationalists	04	Adhunik Maharashtra By	Google Meet, Google Classroom, PPT Presented
	Response to Gandhian Movements in Maharashtra	04		

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MAHARASHTRA **1885-1960**	Samyukta Maharshtra Movement	04	Prakash Javdadekar	Online Map, You Tube Video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Contribution of reformers towards Education	04		

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MODULE IV: **EMERGENCE OF NEW FORCES**	Contribution of Reformers towards Women's Education	04	Adhunik Maharashtra By Prakash Javdadekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA MARATHI**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I:** **AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: PRE-HISTORIC, PROTO-HISTORIC AND EARLY HISTORICAL PERIODS	Palaeolithic and Mesolithic Periods	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar ar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Yashvant Keshav Patil College of Commerce
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Puratav Shastra Va Vastusangrahlay By	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		
	Contribution of Numismatics to Indian History	04		

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			Samel, Nabar	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: IV** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2022-23**

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: LANDMARKS IN WORLD HISTORY **MODULE I:** INTER WAR PERIOD	Kemal Pasha & Modernisation of Turkey	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Reza Shah Pahlavi & Reforms in Iran	04		
	Birth of Israel	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: RISE OF	Fascism & Benito Mussolini	04	Adhunik Jag By	1. Chalk & Duster

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DICTATORSHIP	Nazism & Adolf Hitler	04	Joshi P J S.G Kolarkar	
	Militarism in Japan	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: WORLD WAR II	World War II Cause, Effects & Consequences	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Atlantic Charter	04		
	United Nations Organisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIV: NATIONALIST S MOVEMENTS IN ASIA	Dr. Sun Yat Sen & China	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Mahatma Gandhi & India	04		
	Dr. Sukarno & Indonesia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTUR

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR.DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: III** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD **MODULE I:** SOURCES OF	Archaeological	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Literary	04		

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ANCIENT INDIA AND THEIR IMPORTANCE	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATIO N	Social and Economic Life	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

MODULE III: VEDIC AGE	Janapada	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6TH CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: IV** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND**

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CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: ANCIENT India EARLIEST TIMES TO 1000AD **MODULE I:** MAURYAN AND POST-MAURYAN PERIOD (322 B.C. TO 320 A.D.)	Chandragupta and Ashoka	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Mauryan Administration	04		
	Post Mauryan Dynasties- Sungas, Kushanas and Satavahanas	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MODULE II: GUPTA AGE (320 A.D. TO 600 A.D.)	Imperial Expansion: Chandragupta I, Samudragupta and Chandragupta II	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Administration	04		
	Classical Age	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: :POST GUPTA PERIOD (600A.D. TO 1000A.D.)	The Age of Harshavardhan	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	The Rise of Rajputs	04		
	Arab Invasion of Sind	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIV: MAJOR DYNASTIES OF DECCAN AND SOUTH INDIA	Chalukyas of Badami and Rashtrakutas	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Mahatma Gandhi & Ind Pallavas and Cholas ia	04		
	Spread of Indian Culture in South-East Asia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA **MODULE I: FOUNDATION**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Rise and Decline of Slave Dynasty · Khilji Dynasty	04		

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EXPANSION & DECLINE OF DELHI SULTANATE	· Tughlaq Dynasty · Sayyid Dynasty · Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE SULTANATE	· Central Administration · Iqta System	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Administrative & Military Reforms of Alauddin Khilji	04		
	· Reforms of Firoz Shah Tughlaq · Reforms of Mohammad Bin Tughlaq	04		

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Vidhya Dayanand Patil College of Arts
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII : EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	Socio-Economic & Religious Life	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Education · Literature	04		
	· Art · Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

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LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THEMSELVES WITH THE HISTORY OF INDIA SINCE THE EMERGENCE OF THE MUGHAL RULE. TO UNDERSTAND ADMINISTRATION OF THE MUGHAL EMPIRE. TO STUDY THE RISE OF THE MARATHA POWER**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA **MODULE I: FOUNDATIO N EXPANSION & DECLINE OF MUGHAL RULE**	· India on the Eve of Mughal Rule: · Invasion of Babur	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Humayun · Sher Shah · Akbar	04		
	· Jehangir · ShahJahan · Aurangzeb	04		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE MUGHALS	· Central Administration · Provincial Administration	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Mansabdari System ·	04		
	· Judicial System · Revenue System	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII : RISE OF THE MARATHA POWER	· Shivaji & Foundation of Swarajya	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Administration of Shivaji ·	04		
	· Sambhaji · Raja ram · Tarabai	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	· Society · Economy	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Religion · Education · Literature	04		
	· Art · Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF MODERN MAHARASHTRA **MODULE I: BEGINNING OF BRITISH RULE**	Socio-Economic Conditions in Maharashtra in the 19th Century	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	· Administration · Judiciary	04		
	· Tribal Uprisings · Peasant Movements	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: SOCIO ECONOMIC AWAKENING	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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MODULEIII: POLITICAL DEVELOPMENTS IN MAHARASHTRA 1885-1960	· Moderates · Extremists · Revolutionary Nationalists	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Response to Gandhian Movements in Maharashtra	04		
	Samyukta Maharshtra Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGENCE OF NEW FORCES	Contribution of reformers towards Education	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Contribution of Reformers towards Women's Education	04		
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE PROCESS OF MAKING THE CONSTITUTION AND THE INTEGRATION AND REORGANIZATION OF INDIAN STATES. TO ACQUAINT THE STUDENTS WITH THE POLITICAL DEVELOPMENTS IN INDIA AFTER INDEPENDENCE. TO COMPREHEND THE SOCIO-ECONOMIC CHANGES AND PROGRESS IN SCIENCE AND TECHNOLOGY IN INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: : HISTORY OF CONTEMPORARY INDIA **MODULE I: THE NEHRU ERA 1947-1964**	Features Of The Indian Constitution	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Integration of States · Reorganisation of States	04		
	· Socio-economic reforms · Foreign policy	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1964-1984	· Political Developments After Nehru · Green Revolution	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Abolition of Privy Purses · Nationalisation of Banks · Emergence	04		
	· Janata Government · Return of Congress	04		

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	· Foreign Policy			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1984-2000	· Political Developments	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Relations with Foreign Countries	04		
	· Globalisation · Liberalisation · Privatisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGING TRENDS	· Communalism · Seperatists Movements	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Empowerment of Women · Policy of Reservation	04		
	· Science · Technology · Education	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I: AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: PRE HISTORIC, PROTO HISTORIC AND EARLY HISTORICA L PERIODS	Palaeolithic and Mesolithic Periods	04	Puratav Shastra Va Vastusangrahl ay By Samel, Nabar ar	1. Chalk & Duster
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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TITLE				
MODULEI II: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		

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	Contribution of Numismatics to Indian History	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE TO INFORM THE STUDENTS ABOUT THE ROLE OF MUSEUMS IN THE PRESERVATION OF HERITAGE. TO UNDERSTAND THE IMPORTANCE OF ARCHIVAL SCIENCE IN THE STUDY OF HISTORY. TO ENCOURAGE STUDENTS TO PURSUE CAREERS IN VARIOUS MUSEUMS AND ARCHIVES IN INDIA AND ABROAD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: : INTRODUCTIO N TO	Definition of Museology, Museum Movement in India	04	Puratav Shastra Va Vastusangrahl	1. Chalk & Duster

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MUSEOLOGY AND ARCHIVAL SCIENCE **MODULE I: MUSEOLOGY**	Role of the Curator	04	ay By Samel, Nabar	
	Types of Museums	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: MUSEUM S	Methods of Collection and Conservation of Objects in Museums	04	Puratav Shastra Va Vastusangrahl ay By Samel, Nabar	1. Chalk & Duster
	Preservation Techniques and Types of Exhibitions	04		
	Changing Role of Museums: In-house and Out-reach activities of Museums	04		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEI II: ARCHIVAL SCIENCE	Meaning, Scope, Objectives and Classes of Archives	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Importance of Archives: Value of Records as Sources of History	04		
	Classification of Records	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: MANAGEMENT OF ARCHIVES	Appraisal and Retention of Records (b) (c)	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Conservation and Preservation of Records	04		
	Digital Archives	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH)** A & B

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO GET A BRIEF OVERVIEW OF THE IMPORTANT ASPECTS OF THE GLOBAL SOCIETY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE III **UNIT : I** HUMAN RIGHTS	Scheduled Castes – Constitutional & Legal Rights, Violations& Redressal Mechanisms	02	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Sheduled Tribes– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		
	Women– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		
	Children– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		

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VIOLATIONS & REDRESSAL	Disabilities Minorities, Elderly Persons– Constitutional & Legal Rights, Violations& Redressal Mechanisms	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT: II DEALING WITH ENVIRONMENTAL CONCERNS	Concept Of Disasters And General Effects Of Disasters On Human Life	03	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Local Case Studies Of Environmental Disasters	02		
	Dealing With Disasters: Prevention, Mitigation, Disaster Preparedness	03		
	Human Rights Issues And Violations In Addressing Disasters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT: III SCIENCE & TECHNOLOGY I	Development Of Science: Ancient Culture, Classical Era, Middle Ages, Renaissance, Age Of Enlightment	03	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Nature Of Science: Principles, Characteristics, Theories & Practical's	02		
	Science & Superstition: Exploding Myths, Blind Beliefs, Prejudices. Building Scientific Temper	03		
	Science In Everyday Life : Science & Technology Inter	03		

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	Relation And Distinction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV:	PART A: • Verbal And Non Verbal Communication	03		Google Meet,

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<table>
<tr><td rowspan="3">SOFT SKILLS FOR INTERPERSONAL COMMUNICATION</td><td>• Listening Skills
• Barriers In Effective Communication
• Importance Of Body Language</td><td></td><td rowspan="3">FOUNDATION COURSE III
BY
MICHEAL VAS & AURORA VAZ</td><td rowspan="3">Google Classroom,
PPT Presented
Quizzizz, h5p,
You Tube Video.</td></tr>
<tr><td>PART B:
• Formal & Informal Communication
• Writing Skills
• Group Discussions
• Interviews
• Presentations:</td><td>04</td></tr>
<tr><td>PART C :
• Leadership Skills
• Self Improvement Skills
• Team Building</td><td>04</td></tr>
</table>

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: **MS.QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH) A & B**

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: **LANDMARKS IN WORLD HISTORY** **MODULE I:** THE MODERN AGE	Renaissance, Art, Architecture, Science & Literature	04	Landmarks In World History By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Geographical Discoveries, Vasco Da Gama, Christopher Columbus	04		
	Reformation & Counter Reformation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: AGE OF REVOLUTIONS	American Revolution	04	Landmarks In World History By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	French Revolution	04		
	Industrial Revolution	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: NATIONALISM & IMPERIALISM	Formation of Nation States in Europe	04		Google Meet, Google Classroom,
	Nationalist Movements in Italy & Germany	04		

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	Imperialist Expansion in Asia	04	Landmarks In World History By Dr. Eugene D’souza	PPT Presented Quizzizz, h5p, You Tube Video You Tube Video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
MODULE IV: WORLD IN TRANSITION	World War I	04	Landmarks In World History By Dr. Eugene D’souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Russian Revolution	04		
	League of Nations	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: V MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

		ALLOTED		
HISTORY IV: MEDIEVAL INDIA **MODULE I:** **FOUNDATION EXPANSION & DECLINE OF DELHI SULTANATE**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Rise and Decline of Slave Dynasty • Khilji Dynasty	04		
	• Tughlaq Dynasty • Sayyid Dynasty • Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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NAAC accredited "B" Grade, 2.69 CGPA

MODULE II: **ADMINISTRATIVE STRUCTURE OF THE SULTANATE**	• Central Administration • Iqta System	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Administrative & Military Reforms of Alauddin Khilji	04		
	• Reforms of Firoz Shah Tughlaq • Reforms of Mohammad Bin Tughlaq	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janharinaik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janhavi Naik

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	Socio-Economic & Religious Life	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: V MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF	Socio-Economic Conditions in Maharashtra in the 19th Century	04		

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

MODERN MAHARASHTRA **MODULE I:** **BEGINNING OF BRITISH RULE**			History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Administration • Judiciary	04		
	• Tribal Uprisings • Peasant Movements	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04		

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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MODULE II: SOCIO-ECONOMIC AWAKENING			History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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NAAC accredited "B" Grade, 2.69 CGPA

MODULEIII: **POLITICAL DEVELOPMENTS IN MAHARASHTRA** **1885-1960**	• Moderates • Extremists • Revolutionary Nationalists	04	History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Response to Gandhian Movements in Maharashtra	04		
	Samyukta Maharshtra Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGENCE OF NEW FORCES	Contribution of reformers towards Education	04	History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Contribution of Reformers towards Women's Education	04		
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI) DIV-A**

SEMESTER: II MONTH: **FEBRUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY MODULE IV: NATIONALISM & SOCIAL GROUPS	Women	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh Swtantra Bhartacha Itihas Dr.Suman Vaidya & Dr. Shanta Kothekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Dalit	04		
	Peasant	02		
	Tribals	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA (ENGLISH) DIV -B**

SEMESTER: II MONTH: **FEBRUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY **MODULE I:** SOCIO-RELIGIOUS REFOEM MOVEMENT	Brahmo Samaj, Arya Samaj, Ramkrishna Mission	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Sathyashodak Samaj, Aligarh Movement, Singh Sabha	04		
	Impact of Reform movements on Indian Society	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: EDUCATION, PRESS & TRANSPORT	Introduction to Western Education & its Impact	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Development Of Press	04		
	Transport & Communication	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: IMPACT OF BRITISH RULE ON INDIAN ECONOMY	Revenue Settlements & Commercialisation of Agriculture	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Drain Theory	04		
	Deindustrialisation & Growth of Large Scale Industries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISM AND SOCIAL GROUPS: INTERFACES	WOMEN	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	DALITS	04		
	PEASANTS AND TRIBALS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA (ENGLISH) DIV- C**

SEMESTER: II MONTH: **FEBRUARY TO APRIL**

ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY **MODULE I:** SOCIO-RELIGIOUS REFOEM MOVEMENT	Brahmo Samaj, Arya Samaj, Ramkrishna Mission	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Sathyashodak Samaj, Aligarh Movement, Singh Sabha	04		
	Impact of Reform movements on Indian Society	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TITLE		LECTURES ALLOTED		TOOLS USED
MODULE II: EDUCATION, PRESS & TRANSPORT	Introduction to Western Education & its Impact	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Development Of Press	04		
	Transport & Communication	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: IMPACT OF BRITISH RULE ON INDIAN ECONOMY	Revenue Settlements & Commercialisation of Agriculture	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Drain Theory	04		
	Deindustrialisation & Growth of Large Scale Industries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISM AND SOCIAL GROUPS: INTERFACES	WOMEN	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	DALITS	04		
	PEASANTS AND TRIBALS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: : **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH) SEMESTER: IV**

MONTH: **JANUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: LANDMARKS IN WORLD HISTORY **MODULE I:** INTER WAR PERIOD	Kemal Pasha & Modernisation of Turkey	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Reza Shah Pahlavi & Reforms in Iran	04		
	Birth of Israel	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: RISE OF DICTATORSHIP	Fascism & Benito Mussolini	04	Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Nazism & Adolf Hitler	04		
	Militarism in Japan	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: WORLD WAR II	World War II Cause, Effects & Consequences	04	Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Atlantic Charter	04		
	United Nations Organisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Bhaskar Waman Thakur College of Science
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VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISTS MOVEMENTS IN ASIA	Dr. Sun Yat Sen & China	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Mahatma Gandhi & India	04		
	Dr. Sukarno & Indonesia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF Dr.ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH: NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
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NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06_______

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04_____ **TEACHING PLAN (UNIT PLAN)**

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

Vijaya N.

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BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust's

Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)

TEACHING PLAN UNIT PLAN PSYCHOLOGY 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the important researchers and their contributions to the field of Psychology. The learner will be able to get an insight on different viewpoints in Psychology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 1**	**THE HISTORY OF PSYCHOLOGY** - Wundt, Introspection, Laboratory. - Titchner, structuralism. - James, Functionalism.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

Rashmi sawant
Name of the staff

Rashmi Sawant
Name of the H.O.D

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TITLE: THE SCIENCE OF PSYCHOLOGY	- Gestalt -Freud, psychoanalysis. -Watson, Behaviourism.			
	THE FIELDS OF PSYCHOLOGY TODAY - Psychodynamic perspective - Behavioural perspective - Humanistic perspective - Bio - psychological perspective - Cognitive perspective - Sociology - cultural perspective - Evolutionary perspective	03	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	SCIENTIFIC RESEARCH - scientific methods - descriptive methods - finding relationship - qualitative methods	03	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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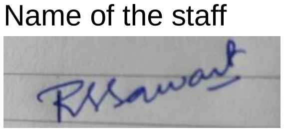
Name of the staff



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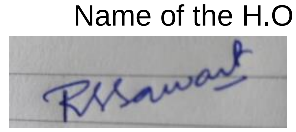
Name of the H.O.D



	ETHICS OF PSYCHOLOGICAL RESEARCH - guidelines for doing research with people.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Astrology	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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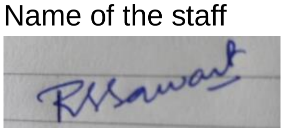
Name of the staff



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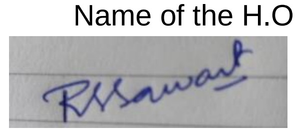

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the biological basis of Psychology. The learner will be able to know the structure and functions of neurons. The learner will be able to understand the nervous system and its parts and what role it plays in Psychology. The learner will be able to have an insight in methods of studying the brain and parts of the brain that influence human Psychology. The learner will be able to understand the endocrine system and its functions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY 101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 2** **TITLE: THE BIOLOGICAL PERSPECTIVE**	**NEURONS AND NERVES : BUILDING THE NETWORK** - structure of the neuron - neural impulse - synapse - neurotransmitters - reuptake and enzymes	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	AN OVERVIEW OF THE NERVOUS SYSTEM - central nervous system - peripheral nervous system	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Chalk and Board, Books, short videos

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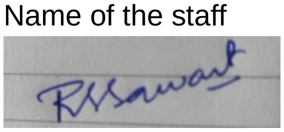

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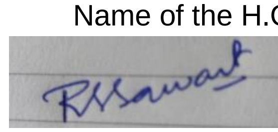

	And structure of the brain		Education Services Pvt.ltd.	
	DISTANT CONNECTIONS:THE ENDOCRINE GLANDS - pituitary gland - thyroid gland - pancreas - gonads - adrenal gland	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	LOOKING INSIDE THE LIVING BRAIN - clinical studies - EEG - CT scan - MRI scan - PET scan	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	FROM THE BOTTOM UP : THE STRUCTURES OF THE BRAIN - brain stem - structures under the cortex - the cortex - the association area of the cortex	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th	Chalk and Board, Books,

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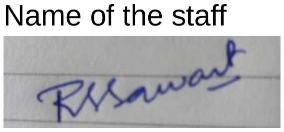

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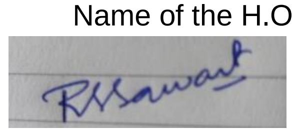

	- discussion and examples - Classic studies in Psychology. - e. g. Difference between male and female brains		Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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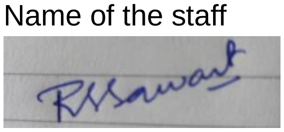

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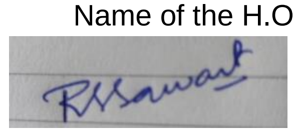

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define Learning. The learner will be able to understand the classical conditioning method of learning and its application. The learner will be able to know the operation conditioning method of learning and its application. The learner will be able to understand other cognitive methods of learning. The learner will be able to know observational methods of learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 3** **TITLE: LEARNING**	**DEFINITION OF LEARNING** - features	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	CLASSICAL CONDITIONING, AND OPERANT CONDITIONING - Pavlov and salivating dog - Elements of classical conditioning - Thorndike's puzzle box and frustrating cat - reinforcement	04	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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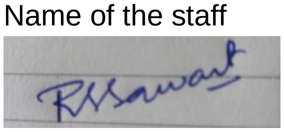

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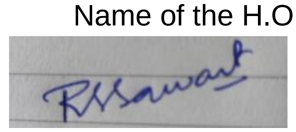

	- schedules of reinforcement			
	COGNITIVE LEARNING THEORY - Tolman's Maze running rats - latent learning Seligman's depressed dogs and learned helplessness - Killer's Chimp and insight learning	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	OBSERVATIONAL LEARNING - Bandura and bobo doll - four elements of observational learning	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Mentally challenged child	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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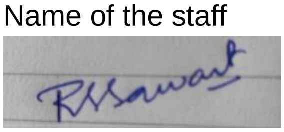

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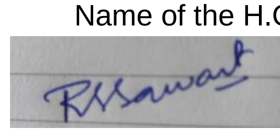

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define memory. The learner will be able to know models of memory. The learner will be able to understand the three different stages of memory according to the information processing model. The learner will be able to have an insight in the retrieval process of long term memory. The learner will be able to define forgetting and understand its nature. The learner will be able to know the physical aspects of memory.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 4** **TITLE: MEMORY**	**WHAT IS MEMORY?** - encoding - storage - retrieval	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	THE INFORMATION PROCESSING MODEL:THREE MEMORY SYSTEMS - sensory memory - short term memory - long term memory - long term memory organization	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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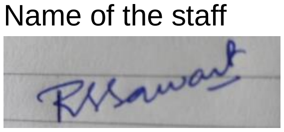

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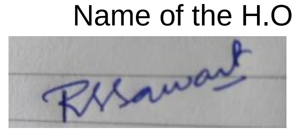

	RETRIEVAL OF LONG –TERM MEMORIES - retrieval cues - recall - recognition	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	FORGETTING - Ebbinghaus and forgetting curve - encoding failure - memory trace decay theory - interference theory.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	NEUROSCIENCE OF MEMORY **- NEURAL ACTIVITY** **- HIPPOCAMPUS AND MEMORY** **- ORGANIC AMNESIA**	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Alzheimer's disease	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Chalk and Board, Books, short videos

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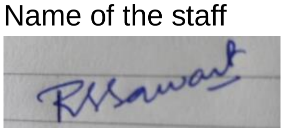

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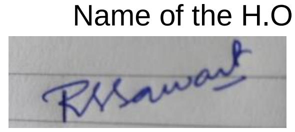

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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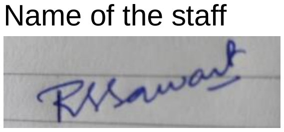
Name of the staff



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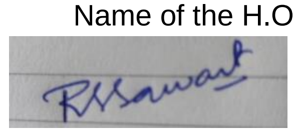

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to understand the concept of social psychology. The learner will be able to know how social psychology originated and developed. The learner will be able to gain insight into the research methods used in social psychology.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 1** **TITLE: SOCIAL PSYCHOLOGY : THE SCIENCE OF THE SOCIAL SIDE OF LIFE**	**SOCIAL PSYCHOLOGY : WHAT IT IS AND WHAT IT IS NOT** -scientific in nature -focus on behavior of individual -causes of social behavior and thought	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	SOCIAL PSYCHOLOGY : ADVANCES AT THE BOUNDARIES - origins and development	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

Rashmi sawant
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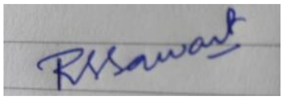
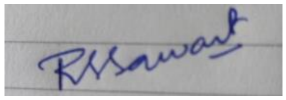


Rashmi Sawant
Name of the H.O.D



	HOW SOCIAL PSYCHOLOGISTS ANSWER THE QUESTIONS THEY ASK : RESEARCH AS THE ROUTE TO INCREASED KNOWLEDGE - experimental method -correlation method - importance of replications, meta-analysis, and converging operations	04	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE ROLE OF THEORY IN SOCIAL PSYCHOLOGY - role of Theory	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE QUEST FOR KNOWLEDGE AND THE RIGHTS OF INDIVIDUAL : SEEKING AN APPROPRIATE BALANCE - need for balancing	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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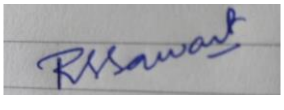
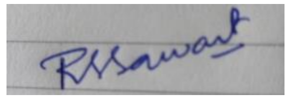
Name of the staff



Rashmi Sawant
Name of the H.O.D



TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to understand the nature of non verbal communication. The learner will be able to define attribution. The learner will be able to discuss factors contributing to attribution and the errors made while attributing. The learner will be able to understand the process of impression management and impression formation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 2** **TITLE: SOCIAL PERCEPTION : SEEKING TO UNDERSTAND OTHERS**	**NON VERBAL COMMUNICATION : AN UNSPOKEN LANGUAGE** - basic channels - emotional expressiveness - detection of deception	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	ATTRIBUTION : UNDERSTANDING THE CAUSES OF BEHAVIOUR - theories of attribution - basic errors in attribution	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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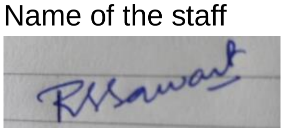

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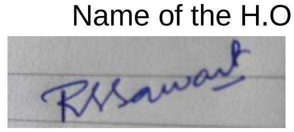

	IMPRESSION FORMATION AND MANAGEMENT : COMBINING INFORMATION ABOUT OTHERS - impression formation - impression management	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT THE ROLE OF NON VERBAL CUES IN JOB INTERVIEW? - research findings	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT WHY SOME PEOPLE CONCLUDE THEY ARE SUPERIOR TO OTHERS? - research findings	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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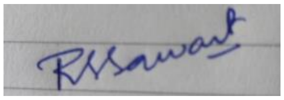

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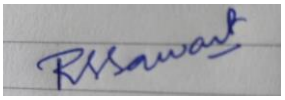

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define attitude. The learner will be able to know how to form attitudes. The learner will be able to understand when and how attitudes influence and guide behaviour. The learner will be able to gain insight into the concept of persuasion and how to resist it. The learner will be able to know the cognitive dissonance. The learner will be able to know how culture influences attitudes.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 3** **TITLE: ATTITUDES : EVALUATING AND RESPONDING TO THE SOCIAL WORLD**	**ATTITUDE FORMATION : HOW ATTITUDES DEVELOP** - social learning -social comparison - genetic factors	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	WHEN AND WHY DO ATTITUDES INFLUENCE BEHAVIOUR? - attitudes and actions	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	HOW DO ATTITUDES GUIDE BEHAVIOUR?	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor	

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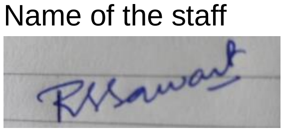

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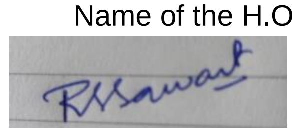

	- specificity - strength - accessibility		(2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE SCIENCE OF PERSUASION: HOW ATTITUDES ARE CHANGED - traditional approach - cognitive approach - attitude functions - reciprocity - message framing	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	RESISTING PERSUASION ATTEMPTS - reactance - forewarning - selective avoidance	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	COGNITIVE DISSONANCE: WHAT IT IS AND HOW DO WE MANAGE IT? - forced compliance	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT CULTURE AND	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor	

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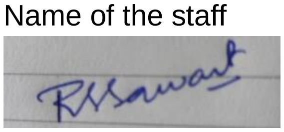

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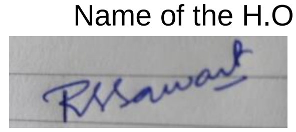

	ATTITUDE PROCESSES? - social diversity		(2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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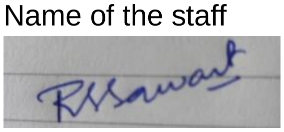

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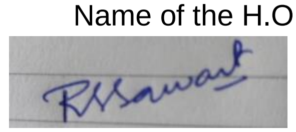

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain more insight into interpersonal liking. The learner will be able to understand the factors influencing interpersonal liking. The learner will be able to understand types of close relationships. The learner will be able to know the factors that may destroy close relationships.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 4** **TITLE: LIKING, LOVE AND OTHER CLOSE RELATIONSHIPS**	**INTERNAL SOURCES OF LIKING OTHERS : THE ROLE OF NEEDS AND EMOTIONS** - physical surroundings - positive and negative effects - need to affiliation	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	EXTERNAL SOURCES OF ATTRACTION:THE EFFECTS OF PROXIMITY, FAMILIARITY AND PHYSICAL BEAUTY - proximity - familiarity	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. New Delhi: Pearson Education; Indian reprint 2017	

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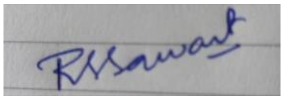

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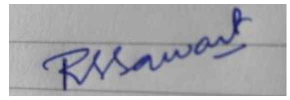

	- physical beauty			
	SOURCES OF LIKING BASED ON SOCIAL INTERACTION - familiarity and interaction	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	CLOSE RELATIONSHIPS: FOUNDATIONS OF SOCIAL LIFE - reciprocity - similarity	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT DRAMATIC DIFFERENCES IN APPEARANCE BETWEEN PARTNERS: IS LOVE REALLY BLIND? **-** factors influencing interpersonal attraction	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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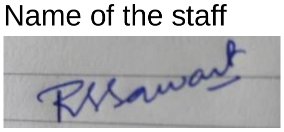

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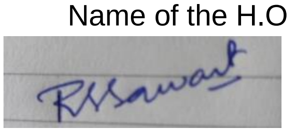

	WHAT RESEARCH TELLS US ABOUT TWO FACTORS THAT MAY DESTROY LOVE-JEALOUSY AND INFIDELITY - jealousy - infidelity	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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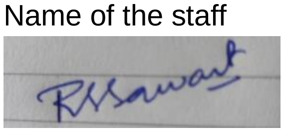

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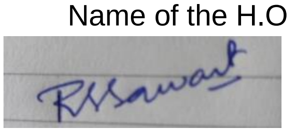

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into lifespan development. The learner will be able to know developmental milestones in adolescence with reference to physical development. The learner will be able to understand the cognitive development that occurs in adolescence. The learner will understand the language development occurring in adolescence.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 1** **TITLE: AN INTRODUCTION TO LIFESPAN DEVELOPMENT AND ADOLESCENCE PHYSICAL & COGNITIVE DEVELOPMENT**	**LIFESPAN DEVELOPMENT** - An orientation to lifespan development - defining life span development - scope of the field (areas, age and individual differences) - basic influences in development (history, age, socio-cultural, life events)	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	PHYSICAL MATURATION - puberty (timing, sequence and signs of maturation) - fitness - sleep needs	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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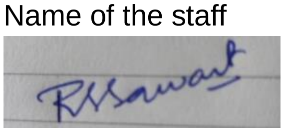

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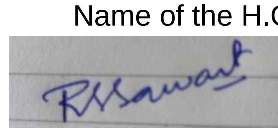

	COGNITIVE DEVELOPMENT AND SCHOOLING - Piaget's stage of formal operations - language development - educational and vocational issues	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	
	THREATS TO ADOLESCENCE WELL BEING - nutrition and eating disorder - uses and abuses of drugs - depression - deaths in adolescence	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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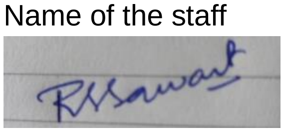

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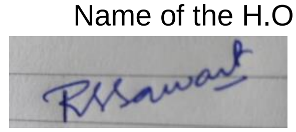

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into psychosocial development during adolescence. The learner will be able to understand the process of realizing sexual orientation in adolescence. The learner will be able to know the dynamics of relationships with family and friends.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 2** **TITLE: SOCIAL AND PERSONALITY DEVELOPMENT IN ADOLESCENCE**	**IDENTITY** - Erikson's identity versus identity confusion - Marcia – identity status, crisis and commitment - gender differences	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	RELATIONSHIPS - adolescence and parents - adolescence and siblings - adolescence and peers	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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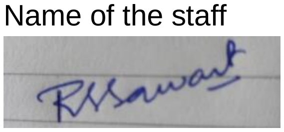

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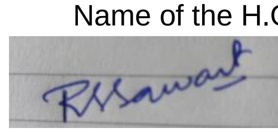

	DATING, SEXUAL BEHAVIOUR AND TEENAGE PREGNANCY - dating - sexual behaviour - teenage pregnancy		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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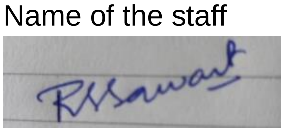

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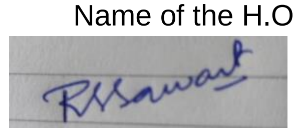

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the developmental milestones in adulthood. The learner will be able to understand the physical development occurring in early adulthood. The learner will be able to understand the cognitive development occurring in early adulthood. The learner will be able to know the relevance of pursuing higher education in early adulthood.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER III (PSY 302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 3** **TITLE: PHYSICAL AND COGNITIVE DEVELOPMENT IN EARLY ADULTHOOD**	**PHYSICAL DEVELOPMENT** - Erikson's identity versus identity confusion - Marcia – identity status, crisis and commitment - gender differences	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	COGNITIVE DEVELOPMENT - Erikson's theory - post formal thinking - intelligence	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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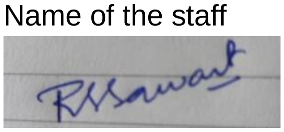

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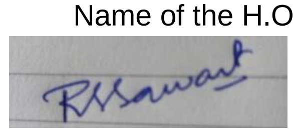

	COLLEGE: PURSUING HIGHER EDUCATION - demographics of higher education - college adjustment - reacting to the demands of college life		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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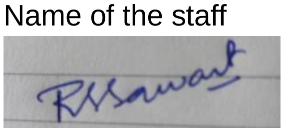

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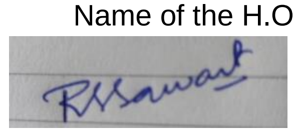

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into psychosocial development during early adulthood. The learner will be able to understand the relationship patterns in early adulthood. The learner would be able to gain insight into the attachment styles of early adults. The learner will be able to know the process of choosing a partner in early adulthood.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 4** **TITLE: SOCIAL AND PERSONALITY DEVELOPMENT IN EARLY ADULTHOOD**	**FORGING RELATIONSHIPS: INTIMACY, LIKING AND LOVING DURING EARLY ADULTHOOD** - components happiness - emerging adulthood - love - choosing partner - attachment styles - gay and lesbian relationship	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	THE COURSE OF RELATIONSHIPS - marriage - parenthood - gay and lesbian parents - staying single	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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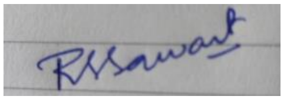

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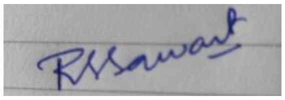

	WORK: CHOOSING & EMBARKING ON A CAREER - identity during young adulthood - picking an occupation - choosing a career - gender and career choices		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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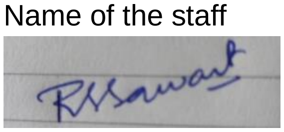

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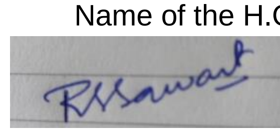

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

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2) To create awareness about measurement of intelligence and assessment of personality
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4) To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 1**	a) Test conceptualization and Test construction b) Test tryout and Item analysis c) Test revision d)Meaning and types of correlation – positive, negative	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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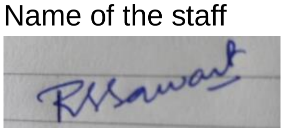

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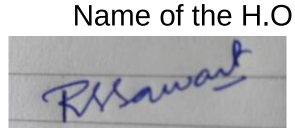

TITLE: Test Development and Correlation	and zero; Graphic representations of correlation - Scatterplots e) The steps involved in calculation of Pearson’s product-moment correlation coefficient f) Calculation of rho by Spearman’s rank-difference method; Uses and limitations of correlation coefficient g) Simple Regression and Multiple Regression			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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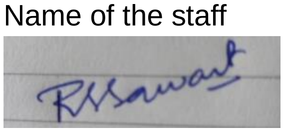

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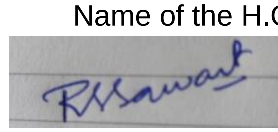

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 2**	a) The concept of Reliability; sources of error variance b) Reliability estimates: Test-Retest, Parallel and Alternate Forms, Split-Half, Inter-	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New	Chalk and Board, Books, google classroom, short videos.

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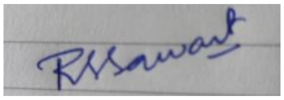

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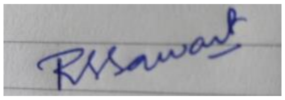

TITLE: Reliability	Item Consistency Kuder-Richardson, Cronbach's Coefficient Alpha; Inter-Scorer Reliability c) Using and interpreting a coefficient of Reliability – purpose of the Reliability coefficient, nature of the test, the true score model of measurement and alternatives to it d) Reliability and individual scores: SEM and SE-Difference		York. McGraw-Hill International edition. (Indian reprint 2015)	

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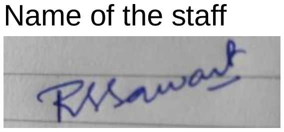

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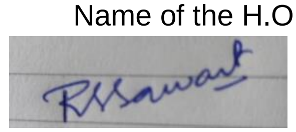

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 3** **TITLE: Validity and Measures of central tendency**	a) The concept of validity; Face and Content validity b) Criterion-related validity and Construct validity c) Validity, bias, and fairness d) Calculation of mean, median and mode of a frequency distribution; The assumed mean method for calculating the mean e) Comparison of measures of central tendency: Merits,	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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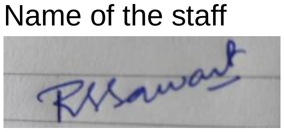

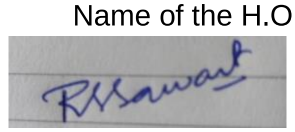

	limitations, and uses of mean, median and mode			

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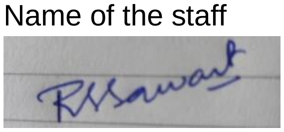

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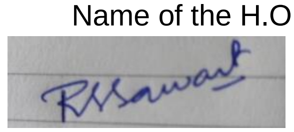

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTE D**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 4** **TITLE: Types of scores, Types of scales, Frequency Distribution, Graphic representations**	a) Continuous and discrete scores – meaning and difference; Nominal, ordinal, interval and ratio scales of measurement b) Preparing a Frequency Distribution; advantages and disadvantages of preparing a frequency distribution; smoothed frequencies: method of running averages	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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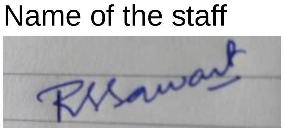

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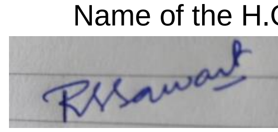

	c) Graphic representations: Frequency polygon, histogram, cumulative frequency curve, ogive, polygon of smoothed frequencies			

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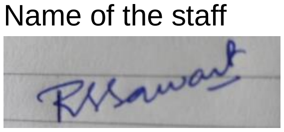

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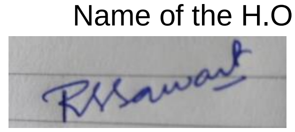

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 1** **TITLE:** **<u>Understanding Abnormal behavior, Diagnosis,</u>**	a) What is Abnormal Behaviour? The social impact of psychological disorders; defining abnormality; biological, psychological, sociocultural causes of abnormal behaviour, the biopsychosocial perspective; prominent themes in abnormal psychology throughout history – spiritual, humanitarian and scientific approaches; what's	04 PER WEEK	**Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)**	Chalk and Board, Books, google classroom, short videos.

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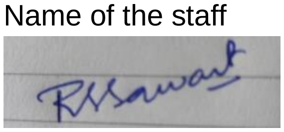

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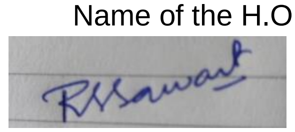

Treatment and Assessment	new in the DSM-5 – definition of a mental disorder b) Psychological disorder : experiences of client and clinician; the diagnostic process, DSM-5, additional information, culture-bound syndromes c) Characteristics of psychological assessment; clinical interview and Mental Status Examination; behavioural, multicultural, neuropsychological assessment; neuroimaging			

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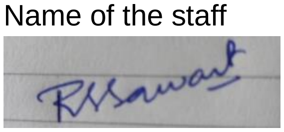

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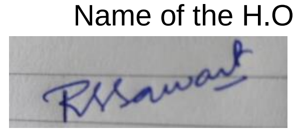

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NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 2** **TITLE:** <u>Theoretical Perspectives</u>	a) Theoretical perspectives in Abnormal Psychology; Biological perspective, Trait theory, Psychodynamic, Behavioral perspectives b) Cognitive, Humanistic, Sociocultural perspectives; Biopsychosocial perspectives on theories and treatments: an integrative approach	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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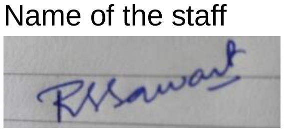

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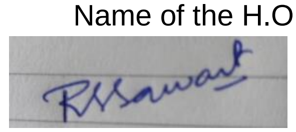

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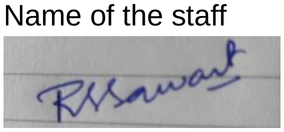

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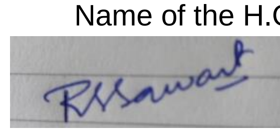

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PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 3** **TITLE: <u>Anxiety, Obsessive-compulsive, and Trauma- and</u>**	a) Anxiety Disorders b) Obsessive-compulsive and related disorders c) Trauma- and Stressor-related Disorders; the biopsychosocial perspective	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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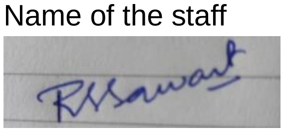

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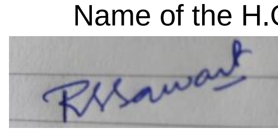

Stressor-related Disorders				

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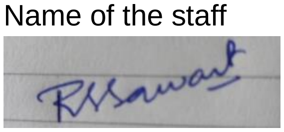

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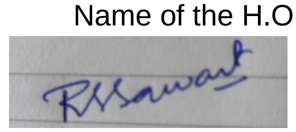

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PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 4** **TITLE:** **<u>Dissociative and Somatic Symptom Disorders</u>**	a) Dissociative disorders – major forms, theories and treatment b) Somatic symptom and related disorders - somatic symptom disorder, illness anxiety and conversion disorders, conditions related to Somatic Symptom Disorders, theories and treatment	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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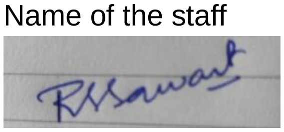

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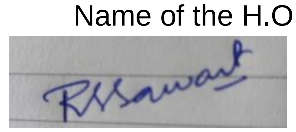

	c) Psychological factors affecting medical condition; Dissociative and Somatic Symptom Disorders: the biopsychosocial perspective			

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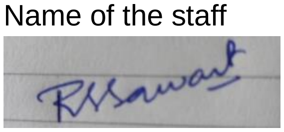

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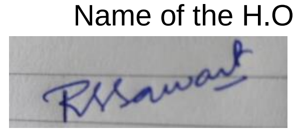

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CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 1** **TITLE: <u>Job Analysis</u>**	a) What is job analysis? Purposes of job analysis; How job analysis information is collected b) Methods of job analysis; Reliability and validity of job analysis information; Job evaluation	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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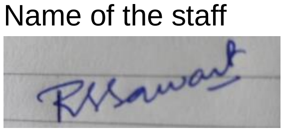

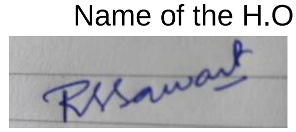

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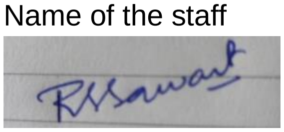
Name of the staff



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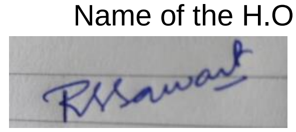

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 2** **TITLE: <u>Performance Appraisal</u>**	a) Why do we appraise employees? Performance criteria b) Objective and subjective methods for assessing job performance; the impact of technology on performance appraisal; legal issues in performance appraisal	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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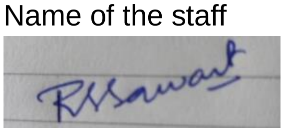
Name of the staff



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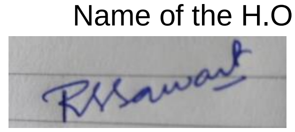

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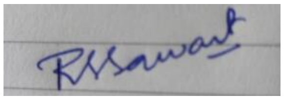

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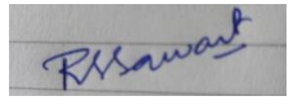

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 3** **TITLE: <u>Assessment Methods for Selection and Placement</u>**	a) Job-Related characteristics. b) Characteristics of psychological tests c) Ability Tests, Knowledge, Skills and all other tests d) Biographical information, interviews, work samples, Assessment centers and electronic assessment.	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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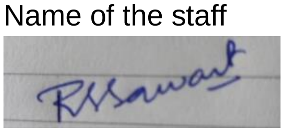

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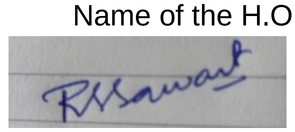

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

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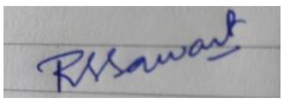

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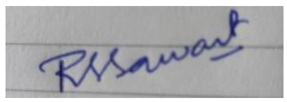

Shri. Vishnu Waman Thakur Charitable Trust's

Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)
(NAAC ACCREDITED-'B' Grade, CGPA 2.69)

TEACHING PLAN UNIT PLAN PSYCHOLOGY 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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3. To make the students aware of the applications of Psychological concepts in different areas of day to day life.

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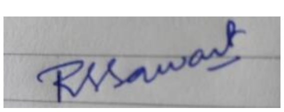
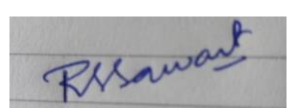
PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 1**	a) How People think. b) Intelligence. c) Language d) Applying Psychology to Everyday life.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Board and chalk, Classroom discussion, small experiments and activities, short videos

TITLE: Cognition: Thinking, Intelligence and Language.			Education Services Pvt.ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

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PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 2** **TITLE:** **Motivation and Emotion.**	a) Approaches to understanding Motivation. b)Wha, Hungry again? Why People Eat. c) Emotion. d) Culture and Emotions. e) Applying Psychology to Everyday life.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

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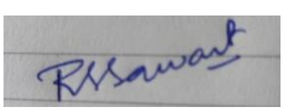

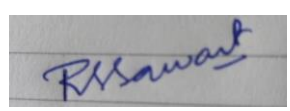

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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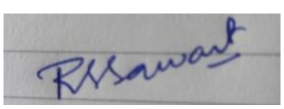
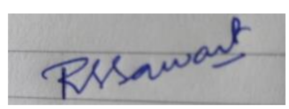
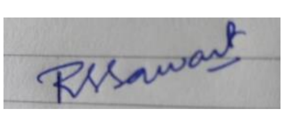
PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 3** **TITLE:** **Theories of Personality.**	a) Psychodynamic Perspective. b) Psychoanalysis in the East . c) The Behavioural and Social Cognitive View of Personality. d) The Third Force : Humanism and Personality. e) Trait Theories: Who are you? f) Modern Trait Theories: The Big Five and current thoughts on the trait Perspective.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

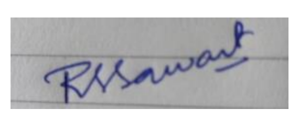




	g) Personality : Genetics and Culture. h) Assessment of Personality. i) Applying Psychology to Everyday life.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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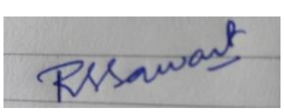
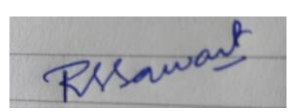
PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Statistics in Psychology.**	a)What are Statistics? b) Descriptive Statistics. c) Inferential Statistics.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

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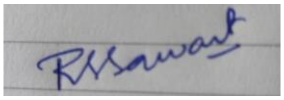
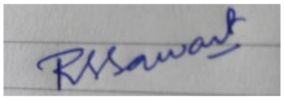
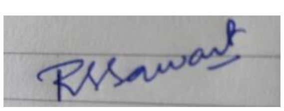
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 1** **TITLE:**	**A) HOW MEMBERS OF DIFFERENT GROUPS PERCEIVE INEQUALITY** **B) THE NATURE AND ORIGINS OF STEREOTYPING** **C) PREJUDICE: FEELINGS TOWARD SOCIAL GROUPS**	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

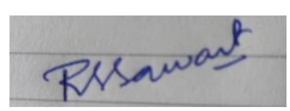




Causes, and Cures of Stereotyping, Prejudice and Discrimination	**D) DISCRIMINATION: PREJUDICE IN ACTION** **E) WHY PREJUDICE IS NOT INEVITABLE: TECHNIQUES FOR COUNTERING ITS EFFECTS** **F) WHAT RESEARCH TELLS US ABOUT THE ROLE OF EXISTENTIAL THREAT IN PREJUDICE**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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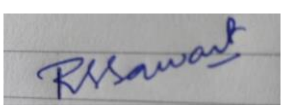
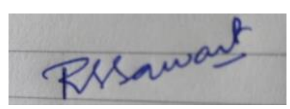
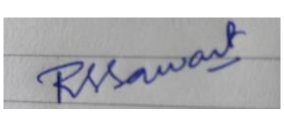
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 2** **TITLE:**	**A) CONFORMITY: HOW GROUPS – AND NORMS – INFLUENCE OUR BEHAVIOR.** **B) COMPLIANCE: TO ASK – SOMETIMES – IS TO RECEIVE** **C) OBEDIENCE TO AUTHORITY: WOULD YOU HARM SOMEONE IF ORDERED TO DO SO?** **D) UNINTENTIONAL SOCIAL INFLUENCE: HOW OTHERS CHANGE OUR BEHAVIORS EVEN**	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

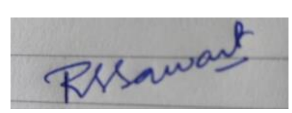




SOCIAL INFLUENCE: CHANGING OTHERS' BEHAVIOR	**WHEN THEY ARE NOT TRYING TO DO SO** **E) WHAT RESEARCH TELLS US ABOUT HOW MUCH WE REALLY CONFORM?** **F) WHAT RESEARCH TELLS US ABOUT USING SCARCITY TO GAIN COMPLIANCE?**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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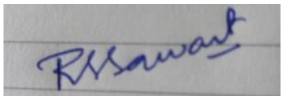
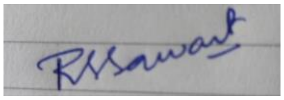
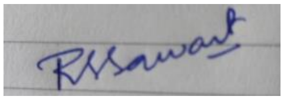
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 3** **TITLE:**	a) Perspectives on aggression: In search of the roots of violence b) Causes of human aggression: Social, cultural, personal and situational	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

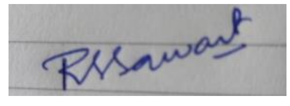




Aggression: Its Nature, Causes and Control	c) Aggression in the classroom and workplace d) The prevention and control of violence: some useful techniques e) What research tells us about the role of emotions in aggression? f) What research tells us about workplace aggression?			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

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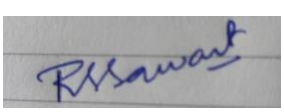
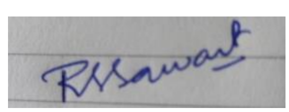
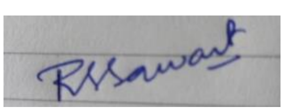
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Prosocial Behavior: Helping Others**	a) Why people help: Motives for prosocial behaviour b) Responding to an emergency: Will bystanders help c) Factors that increase or decrease the tendency to help d) Crowdfunding: A new type of prosocial behaviour	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

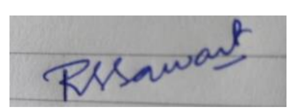




	e) Final thoughts: Are prosocial behaviour and aggression opposites? f) What research tells us about paying it forward: Helping others because we have been helped g) What research tells us about how people react to being helped			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

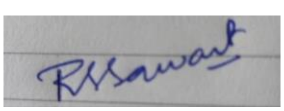
1. To help students in building knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology
2. To foster interest in Developmental Psychology as a field of study and research among students.
3. To make the students aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context

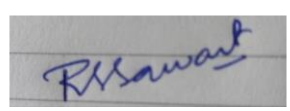
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 1** **TITLE:** **Physical and Cognitive Development in Middle Adulthood**	**a) Physical development** **b) Health** **c) Cognitive development**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**





DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 2** **TITLE:** **Social and Personality Development in Middle Adulthood**	**a) Personality Development** **b) Relationships: Family in Middle Age** **c) Work & Leisure**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

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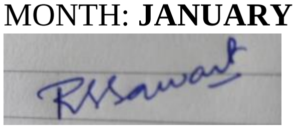

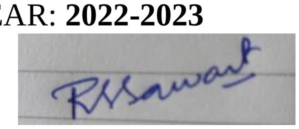

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PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 3** **TITLE:** **Physical and Cognitive Development in Late Adulthood**	**a) Physical development in Late Adulthood** **b) Health and wellness in Late Adulthood** **c) Cognitive development in Late Adulthood**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

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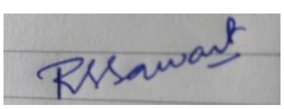

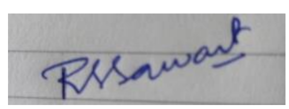

3. To make the students aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 4** **TITLE:** **Social and Personality Development in Late Adulthood**	a) Personality Development and successful aging b) The daily life of Late Adulthood c) Relationships: Old & new	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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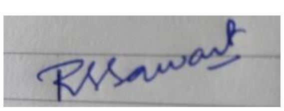

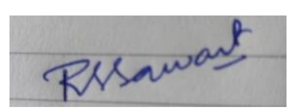

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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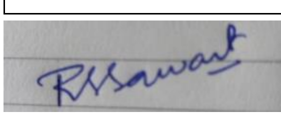
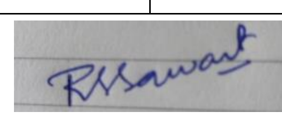
4) To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics

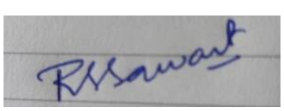
PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 1** **TITLE:** **Test Development and Correlation**	a) Test conceptualization and Test construction b) Test tryout and Item analysis c) Test revision d) Meaning and types of correlation positive, negative and zero; Graphic representations of correlation - Scatter Plots e) The steps involved in calculation of Pearson's product-moment correlation coefficient f) Calculation of rho by Spearman's rank-difference	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

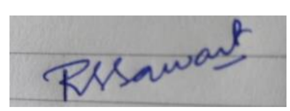




	method; Uses and limitations of correlation coefficient g) Simple Regression and Multiple Regression			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

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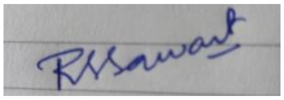
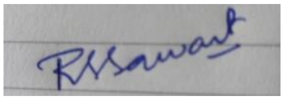
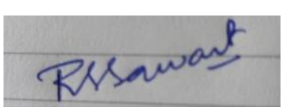
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 2** **TITLE:** **Measurement of Intelligence, Intelligence Scales, Probability, Normal Probability Curve and Standard scores**	a) What is Intelligence? - Definitions and theories; measuring Intelligence b) The Stanford-Binet Intelligence Scales and the Wechsler Tests: WAIS, WISC, WPPSI c) The concept of Probability; laws of Probability; Characteristics, importance and applications of the Normal Probability Curve; Area under the Normal Curve	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

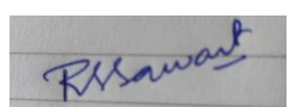




	d) Skewness- positive and negative, causes of skewness, formula for calculation; Kurtosis - meaning and formula for calculation e) Standard scores – z, T, Stanine; Linear and non-linear transformation; Normalised Standard scores			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

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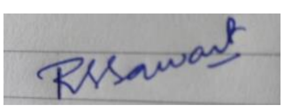
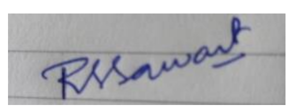
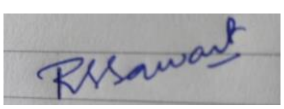
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 3** **TITLE:** **Assessment of Personality**	a) Personality Assessment – some basic questions: who, what, where, how; Developing instruments to assess personality – logic and reason, theory, data reduction methods, criterion groups; personality assessment and culture b) Objective methods of personality assessment c) Projective methods of personality assessment -	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement*. (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videos google classroom,

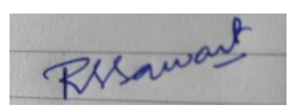




	Inkblots as Projective stimuli - the Rorschach; Pictures as Projective stimuli – Thematic Apperception Test; Projective methods in perspective			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 4** **TITLE:** **Measures of Variability, Percentiles, and Percentile Ranks**	a) Calculation of 4 measures of variability: Range, Average Deviation, Quartile Deviation and Standard Deviation b) Comparison of 4 measures of variability: Merits, limitations, and uses c) Calculation of Percentile ranks and Percentile Scores. d) Percentiles – nature, merits, limitations, and uses.	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videos google classroom, .

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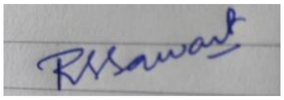

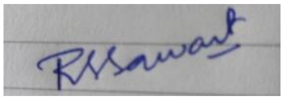

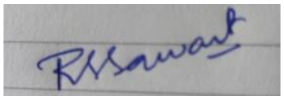

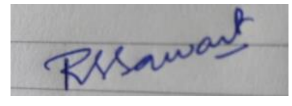

TEACHING PLAN (UNIT PLAN)

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
1) To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality
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3) To create awareness about Mental Health problems in society
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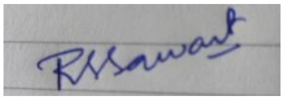
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 1** **TITLE:** **Schizophrenia Spectrum and other Psychotic Disorders**	a) Schizophrenia, brief psychotic disorder, Schizophreniform Schizoaffective, delusional disorders b) Theories and treatment of schizophrenia; Biological, Psychological, Sociocultural perspectives; Schizophrenia: the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

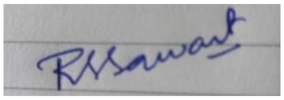
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**





CLASS: **T.Y.B.A.** SEMESTER: **VI**

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LEARNING OBJECTIVE/S:

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY -II** **UNIT 2** **TITLE:** **Depressive and Bipolar Disorders**	a) Depressive disorders; disorders involving alterations in mood b) Theories and treatment of depressive and bipolar disorders; psychological and sociocultural perspectives c) Suicide; depressive and bipolar disorders: the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

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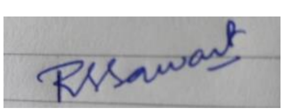

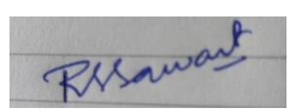

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DEPARTMENT: **PSYCHOLOGY**

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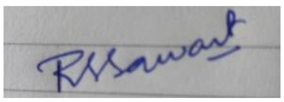
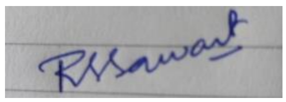
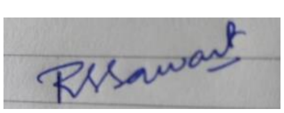
4) To create a foundation for higher education and a professional career in Clinical Psychology

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURE ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 3** **TITLE:** **Paraphilic Disorders, Sexual Dysfunctions, and Gender Dysphoria**	a) What patterns of sexual behavior represent psychological disorders? Paraphilic Disorders; Theories and treatment b) Sexual Dysfunctions; Theories and treatment c) Gender Dysphoria; Theories and treatment; The biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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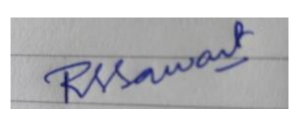

RSSawant

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

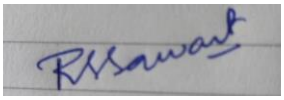
LEARNING OBJECTIVE/S:

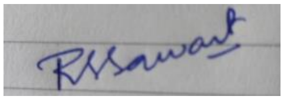
1) To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality
2) To impart knowledge and understanding of the different Psychological Disorders – their symptoms, diagnosis, causes and treatment
3) To create awareness about Mental Health problems in society
4) To create a foundation for higher education and a professional career in Clinical Psychology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Personality Disorders**	a) The nature of personality disorders b) Cluster A and Cluster B personality disorders c) Cluster C personality disorders; the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)





NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

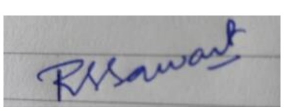
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

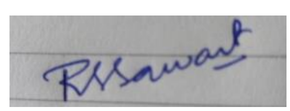
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 1** **TITLE:** **Theories of Employee Motivation**	a) What is motivation? Work motivation theories, need theories b) Other Theories - Reinforcement theory, expectancy theory and self-efficacy theory; Justice theories, goal-setting theory, control theory and action theory	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

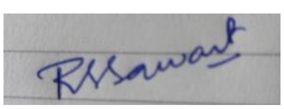
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

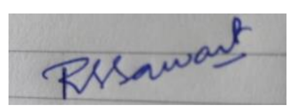
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 2** **TITLE:** **Feelings about Work: Job Attitudes and Emotions**	a) The nature of job satisfaction; how people feel about their jobs; the assessment and antecedents of job satisfaction b) Potential effects of job satisfaction; organizational commitment and emotions at work	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

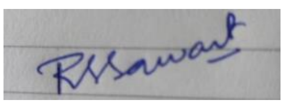
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

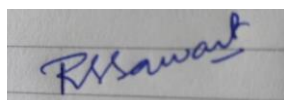
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 3** **TITLE:** **Leadership and Power in Organizations**	a) What is leadership? Sources of influence and power; abuse of supervisory power: sexual and ethnic harassment b) Approaches to the understanding of leadership; women in leadership positions; cross-cultural issues in leadership	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

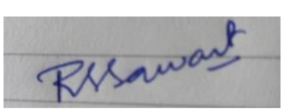
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

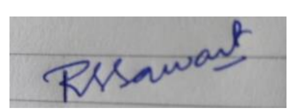
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 4** **TITLE: Organizational Development and Theory**	a) Organizational Development b) Organizational Theories	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Rashmi sawant
Name of the staff



Rashmi Sawant
Name of the H.O.D



RKSawant

RKSawant

hri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

Course: 16th to 18th Century English Literature

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: December ACADEMIC YEAR: __2022-2023

Learning Objectives

1) To introduce students to English Literature of the 16th, 17th and 18thcenturies.

2) To show them how background influences shaped the writer’s thinking.

3) To present them to the literary masters who dominated the scene

4) To familiarize students with different writing styles that each age adopted.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Unit 1: Background and Important Concepts:	1)Neo-Classical Period (1700-1798) i) Neo-Classical/Augustan ii) Age of Satire iii) Rise of the Periodical Essay and the Novel	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth	Google classroom, PPT, blackboard

			Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

Dr Zeba Siddiqui

Signature of the Staff

Signature of the HOD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2:	John Dryden: All for Love	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The	Google classroom, PPT, blackboard

			Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

Dr. Zeba Siddiqui

Signature of the Staff

Signature of the HOD

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I

MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	1. Basu, Durga Das, Introduction to the Constitution of India, Lexis Nexis, 2012.	CHLK AND TALK
	1.2 PREMABLE	4	2. Laxmikant, M, Indian Polity, TMH, 2015.	CHLK AND TALK
	1.3 BASIC FEATURES	4	3. Laxmikant, M., Governance in India, TMH, 2015.	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	3	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL: POLITICAL-SCIENCE CLASS: FYBA(ENGLISH) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	4	Laxmikant, M., Governance in India,	CHLK AND TALK
	3.3 JUDICIAL ACTIVISM	3	Laxmikant, M., Governance in India,	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	4.1 UNION EXECUTIVE - THE PRESIDENT	4	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
EXECUTIVE	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION	3	Laxmikant, M., Governance in India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
TITLE: INDIAN POLITICAL PROCESS CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	3	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	4	Laxmikant, M, Indian Polity	CHLK AND TALK

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	3	Laxmikant, M, Indian Polity	CHLK AND TALK

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BESIC CONCEPT OF POLITICALSCIENCE.

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.3 GLOBAL TERRORISM	4	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills in English

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently

4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: English Usage in Communica tio n	Distinction between American English and British English 2. Indianism and Indian English 3. Appropriacy in the Use of English 4. Non- verbal Communica tio n 5. Elevator Pitch 6. Information and Communica tio n Technology and Use of English 7. Modes and Types of Interview 8. Principles of Creative Writing	08	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ●· Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook: Listening and Speaking Skills	Google classroom, PPT, blackboard, youtube

			Student's Book+ Online Workbook. Cambridge	

			University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ● · Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi,	

			2011. Oxford University Press, 2015	

			• Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. • McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. • Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw-Hill Education, 2002. • Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

Dr. Zeba Siddiqui　　　　　　Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science

Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently
4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Enhancing Reading Competen cie s	A variety of passages of 200-250 words may be taken such as extracts from novels, short stories, plays, magazine, newspapers, reports, documents, academic texts. The passages should have complex text type, function and lexis. The learners may be encouraged to gather meaning contextually or by referring to offline and online sources such as dictionary, thesaurus, and encyclopedi a. 1. Augmenting active vocabulary 2. Understandi ng relations	12	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ● · Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook:	Google classroom, PPT, blackboard, youtube

	between parts of a text 3. Transferring information (Verbal to Non Verbal) 4. Understanding concepts and			

	arguments, 5. Developing skills in analysis and interpretation 6. Rewriting a passage from a defined perspective 7. Reading critically (presenting a reasoned argument that evaluates and analyses what you have read)		Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp- Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ●· Kumar, Sanjay and Pushp Lata.	

			Communication Skills. Second Edition. New	

			Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Unit 3: Advanced Oral Communicatio n Skills	A. Presentation skills: (Formal presentation s and skits) 1. Planning and structuring 2. Opening and closing a presentation 3. Use of body language 4. Use of	15	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ● · Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020	Google classroom, PPT, blackboard, youtube

	technology in making a presentation 5. Drafting a skit (Not to be tested in theory exam) 6. Reading of a skit 7. Presenting a skit Students are advised to prepare their own presentation scripts. Teachers should help them in drafting, reading and presenting those scripts in the class. B. Group Discussion: 1. Formal and informal discussion 2. Elements of group discussion 3. Using appropriate language: Initiating, seeking and giving opinions, suggesting, responding to a suggestion,		● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook: Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H.	

	agreeing, disagreeing, interrupting, requesting, clarifying, summing up 4. Types of discussion: Giving and sharing		and Beverley Holmstrom. Second edition. Study	

	opinions of a given topic, making decisions, problem solving (case study) C. Interview Skills 1. Interviewing others · Researching the interviewee (writer, social worker, entrepreneur, actor etc.) · Preparing questions · Conducting interview 2. Attending an Interview (Job/Entrance) · Researching the organization · Reviewing job- profile and your bio-data/CV · Preparing for standard questions · Responding to questions · Preparing your questions to ask to the interviewer/s 3.		Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp-Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ●· Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in	

	Analyzing Interviews		Use. Cambridge: Cambridge	

			University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw-Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Advanced Writing Skills	A. Report Writing: 1. News report 2. Activity/Event report B. Creative Writing: 1. Personal Essay 2. Memoir 3. Short Speech on the given occasion/ event 4. Story writing	10	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ● · Bellare, Nirmala. Easy Steps to Summary Writing and Note Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and	Google classroom, PPT, blackboard, youtube

			Online Workbook: Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp- Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ● · Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read	

			Better & Faster. New Delhi, Goyal Publishers &		

			Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Dr. Zeba Siddiqui Dr. Vidya Verma

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

SIGNATURE OF THE STAFF

Vijaya N.

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			

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	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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Vijaya N.

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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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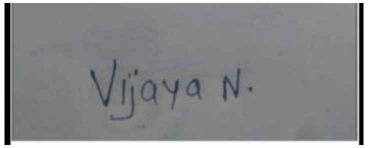
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
IESTER IV - INDIAN ADMINISTRATION **ule 1. Introduction to Indian Administration**	.1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	.2.Salient features			



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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
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	3. District Administration since Independence: Changing role of District Collector			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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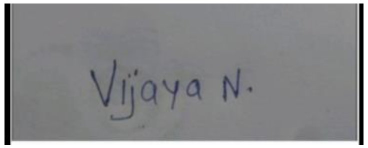

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Late Shri. Vishnu Waman Thakur Charitable Trust
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Personnel Administration	2.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
	Training: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module3. Financial Administration	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			
	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

Vijaya N.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Iodule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			
	.3.Citizens' Charter			

Vijaya N.

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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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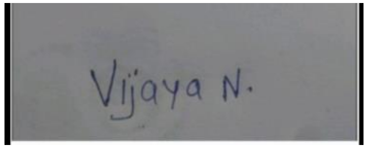
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______



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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH:

NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04________

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER

ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06________

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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BhaskarWaman Thakur College of Science
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______ **TEACHING PLAN (UNIT PLAN)**

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd, 74th, AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER:V MONTH: AUGUST ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT POLITICAL PROCESS IN MODERN MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV POLITICAL PROCESS IN MODERN MAHARASHTRA	1.1.Historical Background	10	Indian Government and politics. B.B.Patil.	EXPLANATION
	1.2. Social Reforms movement			
	1.3. Formation of the sangita Mahrshtra			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __1o________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V MONTH: SEPTEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT World Sub -Regionalism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	2.1.Sub-Regionalism	10	Indian Government and politics. B.B.Patil.	lecture method
Module 2. Sub_ Regionalism	2.2. Regional Disparities			
	2.3.Post-And Development			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

Vijaya N.

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SIGNATURE OF THE H.O.D.

Vijaya N.

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: OCTOBER ACADEMIC YEAR: 2021-22LEARNING OBJECTIVE/S:

The learners will be able to : TO LEARN ABOUT political Institutions in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 3. Political Institutions in Maharashtra	3.1. State legiskature	O8	Indian Government and politics B.B.. Patil	
	3.2. State executive:Governor, Chief Minister,Councils and Ministers			EXPLANATION
	3.3,Judiciary: High Court and subordinate Courts			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____o8______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: NOVEMBER+DECEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT Cast and politics in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Cast and Politics in Maharashtra	4.1.Historical Background of caste based politics	10	Indian Government and politics. B.B.Patil.	Lecture Method
	4.2. Cast dimensions of Maharashtra Politics			
	4.3. Dominant cast politics:OBC,Dalit			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___10_______

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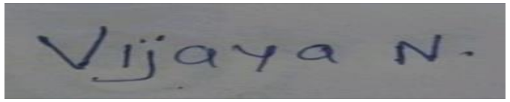
Charitable Trust
BhaskarWaman Thakur



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BhaskarWaman Thakur College of Science
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IIIMONTH:JUNE&JULY ACADEMIC YEAR:2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION

PAPER III, UNIT I, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	4	Lokprashasan B.B.Patil	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline	4	Lokprashasan B.B.Patil	EXPLANATION
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST. PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: III MONTH: JULY_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THEORIES OF ADMINISTRATION.

PAPER III, UNIT II. , TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	Lokprashasan B.B.Patil	CHALK AND TALK

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	2.2. Bureaucratic Theory- Max Weber	3	Lokprashasan B.B.Patil	LECTURE METHOD
	2.3. Human Relations Theory- Elton Mayo	3	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

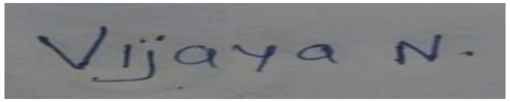
TEACHING PLAN (UNIT PLAN)

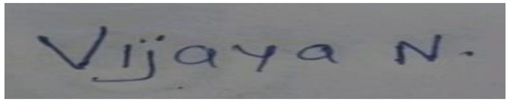
NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) AUGUST:III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT BASIC PRINCIPALS AND THEORIES OF ORGANISATION.

PAPER III, UNITIII, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
asic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	4	Lokprashasan B.B.Patil	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland	4	Lokprashasan B.B.Patil	EXPLANATION
	3,Leadership Theories- Trait theory, Contingency theory	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______





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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICA- SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: SEPTEMBER_ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORAY TECHNIQURES AND PRACTICES IN ADMINISTRATION.

PAPER IV, UNIT IV, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Techniques and Practices in Administration	1.Good Governance	4	Lokprashasan Suvarna Benake	CHALK AND TALK
	2. E-Governance	4	Lokprashasan Suvarna Benake	LECTURE METHOD
	3. Public-Private Partnership (PPP)	3	Lokprashasan Suvarna Benake	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER III, UNIT I, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
troduction to Indian Administration	1.Evolution and Constitutional Context	4	Lokprashasan B.B.Patil	EXPLANETION
	2.Salient features	3	Lokprashasan B.B.Patil	EXPLANETION
	3. District Administration since Independence: Changing role of District Collector	3	Lokprashasan B.B.Patil	EXPLANETION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPERIII , UNIT II, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	3	Lokprashasan B.B.Patil	EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission	4	Lokprashasan B.B.Patil	EXPLANETION
	raining: All- India Services, Central Services, State Services (Maharashtra)	3	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT FINANCIALADMINISTRATION IN INDIA .

PAPER III, UNIT III, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ancial Administration	. Budgetary Process	4	Lokprashasan B.B.Patil	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	Lokprashasan B.B.Patil	EXPLANETION
	3.Comptroller and Auditor General	4	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: FEBRUARY & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORARY ISSUES IN INDIAN ADMINISTRATION.

PAPER III , UNIT IV, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Issues in Indian Administration	. Integrity in Administration: Lokpal, Lokyukta, CVC	4	Lokprashasan B.B.Patil	CHALK ABD TALK
	4.2. Citizen and Administration	3	Lokprashasan B.B.Patil	LECTURE METHOD
	3.Citizens' Charter	4	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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SIGNATURE OF THE STAFF

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya	CHALK AND TALK

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			Siddhanth, Vidya Books Publishers	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.2 Fascism	4	Citizenship: Dialogues and	CHALK AND TALK

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			Perception, Sage Publications	
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Public Administration	1.1. Meaning, Scope and Significance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.2. Evolution of Public Administration as a Discipline	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.3. Human Relations Theory- Elton Mayo	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TECHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Contemporary Techniques & Practices in Administration	.1.Good Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3. Public-Private Partnership (PPP)	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Indian	.1.Evolution and Constitutional Context	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

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Administration				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ancial Administration	.1. Budgetary Process	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3.Comptroller and Auditor General	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: PROF. DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ntemporary Issues in Indian Administration	.1. Integrity in Administration: Lokpal, Lokyukta, CVC	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	4.2. Citizen and Administration	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

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	4.3.Citizens' Charter	3	*Public Administration,* Tata McGrawhill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE CLASS:TYBA (MARATHI) SEMESTER:V MONTH: JUNE

ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT HISTORICAL BACKGROUND OF MAHARASHTRA

PAPER VI **UNIT I ,TITLE**	**SUBJECT TOPICS** **POLITICS OF MODERN MAHARASHTRA**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
HISTORICAL BACKGROUND	1.1 Introduction, Historical Background	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Social Reforms Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.3 The Nationalist Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	Lecturer Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT Sub- Regionalism.

PAPER VI, UNIT II , TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Sub-Regionalism -Regional Disparities & Development	2.1 Profile of Maharashtra	5	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	CHALK AND TALK
	2.2 western Maharashtra	6	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	Lecture Method
	2.3.Konkan,Mumbai City,Marathwada, Vidarbh		Maharashtrache Shasan Aani Rajkaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: II

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: AUGUST

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT Conflict peace and Security

PAPE VI ,, UNIT III, TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	3.1 State Legislature: Composition and functions.	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

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POLITICAL INSTITUTINS IN MAHARASHTRA	3.2 State Executive:Governor,Chief Minister, Council and Ministers	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 Judiciary:High Court and Subordinate Courts	3	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	

TOTAL NUMBER OF LECTURES ALLOCATED TO TH

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N .SHIRSAT DEPARTMENT: POLITICSCIENCEVI-CLASS: TYBA (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CASTE AND POLITICS IN MAHARASHTRA

PAPER VI,UNIT IV TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
:aste and Politics in ıarashtra	4.1. Historical Background of caste based Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.2.Caste Dimension of Maharastra Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

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	4.3.Dominant Caste Politics, The OBC, The Dalit Politics	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: [illegible]

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-V CLASS: TYBA Marathi SEMESTER: VI MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT FOREIGN POLICY

PAPER VI,UNIT I TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA .	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Economy of Maharastra	1.1.The Business class in Maharashtra	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Chambers of Commerce and Industry	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture method
	3.Co-operation and Politics,Land issues-Urban and rural	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN:NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI SEMESTER: VI

MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POLITICAL PARTIES IN MAHARASHTRA

PAPER VI, UNIT II TITLE	**SUBTOPICS** **DETERMINANTS OF POLITICS OF MAHARASHTRA**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Political parties	2.1Indian National Congress,Nationalist Congress party	3	*I* Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	2.2 Bhartiy Janata Party,Republic partiya of India	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method
	2.3 Shiv Sena and Maharashtra Navnirman sena Coalition Politics	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE H.O.D.

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE. CLASS: TYBA (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONTEMPORARY ISSUES AND MOVEMENT

PAPER VI , UNIT III, TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CONTEMPORARY ISSUES AND movement	3.1 Tribal Issues	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture method
	3.2 Farmers Movements and agitations	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S:Thelearners will be able to: TO LEARN ABOUT CIVIL SOCIETY.

PAPER IV, UNIT III TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Civil society Initiatives and Alternative Methods of Development	4.1Civil society Initiatives in India and Maharashtra	3	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.2 movement for the Right to Information in Maharashtra	2	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.3 Initiatives for the protection of environment	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: Unit I : Theory of Communica tio n	Concept of Communica tio n · Meaning · Definition · Process · Need · Feedback · Emergence of Communica tio n as a key concept in the Corporate and Global world	05	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional	Google classroom, PPT, blackboard, youtube

			Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971.	

			13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Communica tio n at the Workplace	i. Channels of Communicatio n (03) Formal and Informal – Vertical, Horizontal, Diagonal and Grapevine ii. Methods of Communicatio n (05) Semester III: Applied Component: Paper-I Total Credits: 02 Course Title: Business Communicatio n Verbal, Non Verbal and Visual (including Kinesics, Para Language, Proxemics, Silence, Sign, Signal and Symbol) iii. Business Etiquette (04) Office Etiquette, Internet	29	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondenc e. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Managemen t, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondenc e and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S.	Google classroom, PPT, blackboar d, youtube

	Etiquette / Netiquette, Business Card Etiquette, Handshake Etiquette, Mobile Phone Etiquette iv. Barriers to Communication and Ways to Overcome Them (06) Physical or Environmental, Semantic or Language, Psychological and Cross-Cultural Barriers Ways to Overcome these Barriers v. Listening (04) What is Listening? The Listening Process Importance of Good Listening How to Develop Effective Listening Skills Obstacles to Listening ii. vi. Business Ethics (07) What is Ethics? Business Ethics? Importance of Business Ethics at Workplace Digital Ethics Environmental Ethics Ethics in International Business		Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and	

	Corporate Social		Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah.	

	Responsibility		Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today- Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 29

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: New Media in Communica tio n	· Impact of Technology Enabled Communica tio n · Video Conference: Skype, Google Meet, Go-To Meeting and Jio-Meet · Social Media: WhatsApp, Twitter, Facebook, Instagram, Telegram and Blog	07	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class	Google classroom, PPT, blackboard, youtube

			Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata	

			McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

Dr. Zeba Siddiqui Dr. Vidya Verma Signature of the Staff Signature of the HOD

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Business Correspond en c	i. Theory of Business Letter Writing · Principles of Effective Letter Writing · Parts of a Business Letter · Layout of a Business Letter (Full Block) ii. Personnel Corresponden ce Job Application Letter and Resume Letter of Recommendati o n Letter of Appointment Letter of Acceptance of Job Offer Letter of Appreciation Letter of Resignation	14	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business	Google classroom, PPT, blackboard, youtube

			Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company	

			Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

Dr. Zeba Siddiqui Dr. Vidya Verma Signature of the Staff Signature of the HOD

Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 5: Paragraph Writing and Book Review	i. Paragraph Writing Developing an idea, using appropriate linking devices, etc. Cohesion and Coherence, etc. ii. Book Review Steps in writing a book review: Introduction, Summary,	05		Google classroom, PPT, blackboard, youtube

	Opinion and Conclusion Recommended Books are: The Wings of Fire by Dr. APJ Abdul Kalam, Bhujia Barons: The Untold Story of How Haldiram Built a 5000 Crore Empire by Pavitra Kumar and The 7 Habits of Highly Effective People by Stephen Covey			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

Vidya verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: Unit I Evolution of Different Media and the Contempo rar y Context	A) Beginnings of mass media in India B) Technologica l milestones and changing trends from conventional to digital media C) Role of media in national developme nt D) Reach of media (regional and demograp hic coverage)	10	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011.	Google classroom, PPT, blackboard, youtube

			11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media.	

			New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD / ICT TOOLS USED**

Unit 2: Television	A) Major formats of TV programmes B) Television and its impact on Indian families C) Television and consumerism D) Television and surveillance E) Reality Television	15	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and	Google classroom, PPT, blackboard, youtube

			Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

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Bhaskar Waman Thakur College of Science

Yashvant Keshav Patil College of Commerce

Vidhya Dayanand Patil College of Arts

VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: Media related Issues and Laws in India	A) Freedom of expression and Censorship B) Relationship between media and government C) Media objectivity, media bias, and political leanings D) Trial by media and media ethics (Television and Print) E) Objectionable advertising F) Information technology (IT) Acts related to media G) Major laws in India related to media	20	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life:	Google classroom, PPT, blackboard, youtube

			An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Functions of Media Personnel and Careers in Media	A) Cyber Journalism B) Editors C) Translators D) Copywriters E) Role of Radio Jockey/Video Jockey F) Blogging G) Writing jingles H) Voice-over Artists I) Public Relations specialists J) Advertising/marketin g specialists K) Script writers L) Newsreaders M) Researchers/Writers N) Music specialists O) Social media specialist	15	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015.	Google classroom, PPT, blackboard, youtube

			6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis.	

			Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: 16th to 18th Century English Literature

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1) To introduce students to English Literature of the 16th, 17th and 18thcenturies. 2) To show them how background influences shaped the writer's thinking.

3) To present them to the literary masters who dominated the scene

4) To familiarize students with different writing styles that each age adopted.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Unit 1: Background and Important Concepts:	1)Neo-Classical Period (1700-1798) i) Neo Classical/Augustan ii) Age of Satire iii) Rise of the Periodical Essay and the Novel	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3	Google classroom, PPT, blackboard

			(Penguin, 1990) 4. Keast, William B. Seventeenth Century English	

			Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

Dr Zeba Siddiqui

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD /**
				ICT TOOLS USED

Unit 2:	John Dryden: All for Love	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983) . 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A	Google classroom, PPT, blackboard

			Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Dr. Zeba Siddiqui

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Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Grammar and Art of Writing

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives:

1. To develop amongst learners an insight into the process of word formation and transformation

2. To develop amongst them an insight into the sounds, stress patterns and intonations in the English language to improve their speaking skills

3. To develop among them an insight into the structure of the English language and to provide knowledge of the rules of grammar

4. To help them learn grammatical analysis and description and the skills of sentence transformation 5. To introduce the mechanics of writing for effective writing for various domains

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTUR ES ALLOTE	REFERENCE/S	TEACHIN G METHOD /

		D		**ICT TOOLS USED**

Unit 1: Grammar	I. Clauses: · Clause elements and subject – verb concord · Basic clause patterns · Types of clauses : finite – non-finite (tensed – tenseless), independent – dependent (Main – Subordinated) · Kinds of subordinate clause : Noun clause, Prepositional Clause , Relative clause , Adverb Clause, Comparative Clause · Co-ordinated Clauses II. Sentences: · Basic and Derived structures Following rules to be studied – Fronting, Inversion, Passive reconsideration , Substitution of PP for Indirect	20	1. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 2. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 3. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 4. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 5. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 6. Kleiser, Grenville. The Art of Writing. New Delhi: A P H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 7. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 8. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975	Google classroom, PPT, blackboard

	Object, Tag Questions, Postponement of the postmodifier, Cleft Sentence, Existential		9. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge,	

	Sentence and Extraposition.		Taylor & Francis Group, 2010 18. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD / ICT TOOLS USED**

Unit 2: Art of Writing	Mechanics of Writing 05 lectures · Characteristics of typical writing and typical speech · Cohesion and Coherence · Correct use of Articles, Prepositions, Adverbs, Adjectives · Common Errors – Grammatical, Syntactical, Lexical, Punctuation, Logical · Writing a	15	10. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 11. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 12. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 13. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 14. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 15. Kleiser, Grenville. The Art of Writing. New Delhi: A P	Google classroom, PPT, blackboard

	Thesis Statement Rhetorical Structures 10 lectures · Classification, Comparison – Contrast, Cause – Effect, Chronological and Spatial Ordering, Order of Importance, Statement and Elaboration, Restatement, Exemplification , Listing · Understanding connotations, Using bias-free language, Avoiding jargon and archaic/ outdated language, Eliminating repetition and redundancy, Content Analysis, and Rhetorical Device		H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 16. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 17. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975 18. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge, Taylor & Francis Group, 2010 18. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya verma

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: Types/ Domains of Writing	Argumentative / reflective writing · Analytical writing · Creative / Figurative writing · Advertisement /Body Copy writing	10	19. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 20. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 21. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 22. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 23. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 24. Kleiser, Grenville. The Art of Writing. New Delhi: A P H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 25. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 26. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975	Google classroom, PPT, blackboard

			27. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge,	

			Taylor & Francis Group, 2010 18. 28. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Vidya verma

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Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

English II: Introduction to Drama

Learning Objectives:

1. Develop interest and passion for Western and Indian drama and its theatre 2. Be familiarized with salient elements and characteristics of drama. 3. Develop analytical skills and critical thinking through close reading of multidimensional dramas. 4. Be able to appreciate holistic understanding of the multifarious themes, issues and complexities portrayed by the renowned playwrights.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Terms and concepts	Types of Drama (based on form, content, function, theme, style): Interlude, Chronicle Plays, Mystery Plays, Miracle Plays, Morality Plays, Romantic	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms	Google classroom, PPT, blackboard

	Comedy, Comedy of Humours, Restoration Comedy of		in Literary Theory. Continnum International, 2012.	

	Manners, Sentimental Comedy, Senecan Plays or Revenge Plays, History Plays, Heroic Drama, Blank Verse Drama, Poetic Drama / Verse Drama, Drama of Ideas / Problem Play, Expressionist Plays, Epic Theatre, Absurd Plays, Plays by Angry Young Men, Kitchen Sink Drama, Theatre of Cruelty, Comedy of Menace, Dalit Theatre		6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O'Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTUR ES ALLOTE**	**REFERENCE/S**	**TEACHIN G METHOD /**

		D		ICT TOOLS USED

Unit 2: Play/Drama	Lorraine Hansberry: A Raisin in the Sun	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms in Literary Theory. Continnum International, 2012. 6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O'Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to	Google classroom, PPT, blackboard

			Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu	

			Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

Signature of the Staff Signature of the HOD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3: Play/drama	David Williamson The Removalists	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms in Literary Theory. Continnum International, 2012.	Google classroom, PPT, blackboard

			6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O'Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTI ON	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , **UNIT III,** **TITLE**	**SUBTOPICS** **INDIAN POLITICAL SYSTEM**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
LEGISLATURE AND JUDICIARY	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXICATIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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VIVA COLLEGE, Virar (W)

CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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BhaskarWaman Thakur College of Science
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , **UNIT IV,** **TITLE**	**SUBTOPICS** **INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
CHALLENGES TO NATIONAL SECURITY	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTI ON	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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Vishnu Waman Thakur Charitable Trust
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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

Vijaya N. Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT III, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
EXICATIVE	4.3 LOCAL SELF-GOVERNMENT – 73rd74th AMENDMENTS AND THEIR IMPLEMENTATION			

Vijaya N.

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
CHANGING NATURE OF FEDERAL SYSTEM	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
PARTYPOLITICS AND ELECTIONS	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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SIGNATURE OF THE H.O.D.

SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

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Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT IV, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

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VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , **UNIT III,** **TITLE**	**SUBTOPICS** **INDIAN POLITICAL SYSTEM**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
LEGISLATURE AND JUDICIARY	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

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SIGNATURE OF THE H.O.D.

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXICATIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT IV, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
CHALLENGES TO NATIONAL SECURITY	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Public Administration	1.1. Meaning, Scope and Significance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.2. Evolution of Public Administration as a Discipline	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.3. Human Relations Theory- Elton Mayo	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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VIVA COLLEGE, Virar (W)

TECHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Contemporary Techniques & Practices in Administration	.1.Good Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3. Public-Private Partnership (PPP)	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN AFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LI /E/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Indian Administration	.1.Evolution and Constitutional Context	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
ancial Administration	1. Budgetary Process	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.Comptroller and Auditor General	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: PROF. DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN AB NISTRATION OF INDIA

PAPER, UNIT, TITLE	OPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ntemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	4.2. Citizen and Administration	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3.Citizens' Charter	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY   ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

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	2.3 State, Civil So[illegible]	4	Jadhav T. Rajaneetishastra Parichay	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	S	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vijaya N.

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TEACHING PLAN (UNIT PLAN) NAME OF … MAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners … RN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	…PICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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Vijaya N.

SIGNATURE OF THE H.O.D.

PAPER, UNIT, TITLE	[illegible]	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLA HE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.2 Fascism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALL HE UNIT: 11

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Vidhya DayanandPatil College of Arts
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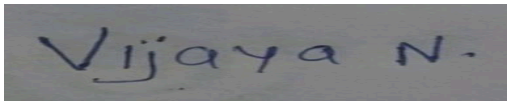
TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK



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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Vijaya N.

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	S	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PL ... THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV M ... EC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINIST ... DIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	1.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	1.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	1.3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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Vidhya DayanandPatil College of Arts
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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya	CHALK AND TALK

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Siddhanth, Vidya Books Publishers

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

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	4.2 Fascism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER:V MONTH: AUGUST ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT POLITICAL PROCESS IN MODERN MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV POLITICAL PROCESS IN MODERN MAHARASHTRA	1.1.Historical Background	10	Indian Government and politics. B.B.Patil.	EXPLANATION
	1.2. Social Reforms movement			
	1.3. Formation of the sangita Mahrshtra			

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TOTAL NUMBER OF LECTURES ALLOC O THE UNIT: 10

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V MONTH: SEPTEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT World Sub -Regionalism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Sub_ Regionalism	2.1.Sub-Regionalism	10	Indian Government and politics. B.B.Patil.	lecture method
	2.2. Regional Disparities			
	2.3.Post-And Development			

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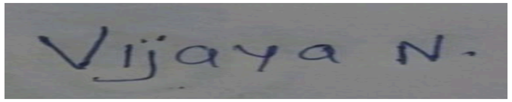
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

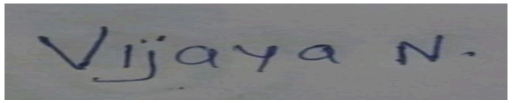


TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: OCTOBER ACADEMIC YEAR: 2021-22LEARNING OBJECTIVE/S:

The learners will be able to : TO LEARN ABOUT political Institutions in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 3. Political Institutions in Maharashtra	3.1. State legiskature	O8	Indian Government and politics B.B.. Patil	
				EXPLANATION



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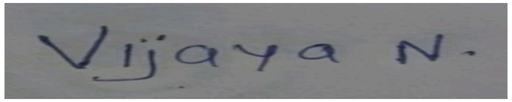
	3.2. State executive:Gc hief Minister,Councils and Ministers			
	3.3,Judiciary: High Court and subordinate Courts			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____o8______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: NOVEMBER+DECEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT Cast and politics in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Cast and Politics	4.1.Historical Background of caste based politics	10	Indian Government and	Lecture Method



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in Maharashtra			politics. B.B.Patil.	
	4.2. Cast dimensions of Maharashtra Politics			
	4.3. Dominant cast politics:OBC,Dalit			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___10_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH)_SEMESTER: V MONTH: JUNE& JULY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Politics Paper VI A: Political Process in Modern Maharashtra Semester V: Politics of Modern Maharashtra	1.1 Evolution of the idea of Maharashtra 1.2 Nationalist Movement and Social Reform Movement 1.3 Sanyukta Maharashtra Movement	11	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

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Module 1: Historical Background				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V_MONTH: AUGUST ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2: Sub-regionalism, Regional Disparity and Development	2.1 Konkan, Marathwada &Vidarbha 2.2 Dandekar Committee Report 2.3 Statutory Development Boards	12	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT_DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:V MONTH:SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Module 3: Political Institutions in Maharashtra	3.1 State Legislature: Composition and Functions 3.2 Chief Minister and Council of Ministers: Role 3.3 High Court and Subordinate Courts	12	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _12_________

TEACHING PLAN (UNIT PLAN)

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 4: Caste and Politics in Maharashtra	4.1 Dominant Caste Politics 4.2 Dalit Politics 4.3 OBC Politics	10	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: VI_MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Politics Paper VIA : Political Process in Modern Maharashtra Semester VI: Determinants of Politics of Maharashtra Module 1 : Political Economy of Maharashtra	1.1 Business and Politics 1.2 Politics of Cooperatives 1.3 Land issues: Urban and Rural	12	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION EXPLANATION

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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _12_________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: VI_MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

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Rural **Module 2 : Political Parties**	2.1 Indian National Congress (I), Nationalist Congress Party and BharatiyaJanata Party	12		CHALK & TALK
	2.2 Republican Party of India, Peasants and Workers Party, Shiv Sena and Maharashtra MNS		Phatak, Anagha: *Political Process of Maharashtra*	
	2.2 Coalition Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______12____

TEACHING PLAN (UNIT PLAN)

Vijaya N.

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF:P:PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER: VI_MONTH: FEBRUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 3 : Contemporary issues and movements	3.1 Tribal issues 3.2 Farmers movements and agitations	10	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION CHALK AND TALK

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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __10________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF :PROF VIJAYA SHIRSATT: POLITICAL –SC CLASS:TYBA(ENGLISH)_SEMESTER:VI MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 4 : Civil society initiatives and alternative models of development	4.1 Civil society - Concept and nature 4.2 Movements for the right to information in Maharashtra 4.3 Initiatives for protection of environment	11	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION

Vijaya N.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _11_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			
Module 2. Theories of Administration	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
IESTER IV - INDIAN ADMINISTRATION **le 1. Introduction to Indian Administration**	1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	2.Salient features			
	3. District Administration since Independence: Changing role of District Collector			

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK

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	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
	raining: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Vijaya N.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule3. Financial Administration	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			
	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

Vijaya N.

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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VidhyaDayanandPatil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			

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	.3.Citizens' Charter			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

Vijaya N.

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NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			
	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

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The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Vijaya N.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
IESTER IV - INDIAN ADMINISTRATION **le 1. Introduction to Indian Administration**	1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	2.Salient features			
	3. District Administration since Independence: Changing role of District Collector			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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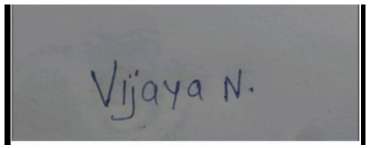
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED



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Module 2. Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
	raining: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule3. Financial Administration	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			

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	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			
	.3.Citizens' Charter			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF Dr.ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH: NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04_____ **TEACHING PLAN (UNIT PLAN)**

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73^{rd} 74^{th} AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I

MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	1. Basu, Durga Das, Introduction to the Constitution of India, Lexis Nexis, 2012.	CHLK AND TALK
	1.2 PREMABLE	4	2. Laxmikant, M, Indian Polity, TMH, 2015.	CHLK AND TALK
	1.3 BASIC FEATURES	4	3. Laxmikant, M., Governance in India, TMH, 2015.	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	3	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL: POLITICAL-SCIENCE CLASS: FYBA(ENGLISH) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	4	Laxmikant, M., Governance in India,	CHLK AND TALK
	3.3 JUDICIAL ACTIVISM	3	Laxmikant, M., Governance in India,	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	4	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION	3	Laxmikant, M., Governance in India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
TITLE: INDIAN POLITICAL PROCESS CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	2.1 NATIONAL PARTIES – FEATURES	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	3	Laxmikant, M, Indian Polity	CHLK AND TALK
PARTYPOLITICS AND ELECTIONS	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	4	Laxmikant, M, Indian Polity	CHLK AND TALK

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VidhyaDayanandPatil College of Arts
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	3	Laxmikant, M, Indian Polity	CHLK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BESIC CONCEPT OF POLITICALSCIENCE.

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SIGNATURE OF THE H.O.D.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	4.1 CRIMINALISATION OF POLITICS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
CHALLENGES TO NATIONAL SECURITY	4.3 GLOBAL TERRORISM	4	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE CLASS:TYBA (MARATHI) SEMESTER:V MONTH: JUNE

ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT HISTORICAL BACKGROUND OF MAHARASHTRA

PAPER VI UNIT I ,TITLE	SUBJECT TOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORICAL BACKGROUND	1.1 Introduction, Historical Background	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Social Reforms Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.3 The Nationalist Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	Lecturer Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLA NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: JULY ACA -23 .LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT Sub- Regionalism.

PAPER VI, UNIT II , TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Sub-Regionalism -Regional Disparities & Development	2.1 Profile of Maharashtra	5	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	CHALK AND TALK
	2.2 western Maharashtra	6	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	Lecture Method
	2.3.Konkan,Mumbai City,Marathwada, Vidarbh		Maharashtrache Shasan Aani Rajkaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: II

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: AUGUST

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT Conflict peace and Security

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PAPE VI ,, UNIT III, TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
POLITICAL INSTITUTINS IN MAHARASHTRA	...ure: Composition and functions	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 State Executive:Governor,Chief Minister, Council and Ministers	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 Judiciary:High Court and Subordinate Courts	3	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	

TOTAL NUMBER OF LECTURES ALLOCATED TO TH

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N .SHIRSAT DEPARTMENT: POLITICSCIENCEVI-CLASS: TYBA (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CASTE AND POLITICS IN MAHARASHTRA

PAPER VI,UNIT IV TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
	4.1. Historical Background of caste based Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK

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...aste and Politics in ...arashtra	...n of Maharastra Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.3.Dominant Caste Politics .The OBC, The Dalit Politics	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-V CLASS: TYBA Marathi SEMESTER: VI MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT FOREIGN POLICY

PAPER VI,UNIT I TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA .	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Economy of Maharastra	1.1.The Business class in Maharashtra	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Chambers of Commerce and Industry	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture method
	3.Co-operation and Politics,Land issues-Urban and rural	4		Lecture Method

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Maharashtra
Prashasan.
.Wa.Bha.Patil

TOTAL NUMBER OF ... CATED TO THE UNIT: 12

TEACHING PLAN:NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POLITICAL PARTIES IN MAHARASHTRA

PAPER VI, UNIT II TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political parties	2.1Indian National Congress,Nationalist Congress party	3	*I* Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	2.2 Bhartiy Janata Party,Republic partiya of India	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method
	2.3 Shiv Sena and Maharashtra Navnirman sena Coalition Politics	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method

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TOTAL NUMBER OF CATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE. CLASS: TYBA (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONTEMPORARY ISSUES AND MOVEMENT

PAPER VI , UNIT III, TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CONTEMPORARY ISSUES AND movement	3.1 Tribal Issues	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture method
	3.2 Farmers Movements and agitations	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S:Thelearners will be able to: TO LEARN ABOUT CIVIL SOCIETY.

PAPER IV, UNIT III TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Civil society Initiatives and Alternative Methods of Development	4.1Civil society Initiatives in India and Maharashtra	3	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.2 movement for the Right to Information in Maharashtra	2	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.3 Initiatives for the protection of environment	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI)SEMESTER: III MONTH: JUNE ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT INTRODUCTION TO POLITICAL THEORY.

PAPER II , UNIT I , TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Dr.Patil Va.Bha.,Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Dr.Patil Va.Bha.Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Dr.Patil Va.Bha.Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)NAME [illegible] PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JULY
ACADEMIC YEAR: 2022-2023.LEARNING OBJE[illegible]will be able to: TO LEARN ABOUT STATE,CIVIL SOCIETY & MARKET.

PAPER II , UNIT II, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST
ACADEMIC YEAR: 202-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POWER,AUTHORITY AND LEGITIMACY.

PAPER II, UNIT III, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONCEPT OF LAW AND POLITICAL OBLIGATION.

PAPER II, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	.1 Concept of Law	4	Political Theory, Dr.Patil.Va.Bha.	CHALK AND TALK
	.2 Political Obligation	4	Political Theory , Dr.Patil.Va.Bha.	CHALK AND TALK
	.3 Right to Resist	4	Political Theory, Dr.Patil.Va.Bha.	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-2023 .LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT RIGHTS.

PAPER II, UNIT I, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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NAME OF THE STAFF: ASST PROF.VIJAYA NAR DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) DECEMBER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT Basic Political Values.

PAPER II, UNIT II, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	2.2 Equality	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	Lecture method
	2.3 Justice	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI)JANUARY: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-202LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT DEMOCRACY

PAPER II, UNIT III, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Democracy	mocracy	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) FEBRUARY & MARCH: IV MONTH: MARCH ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT POLITICAL IDEOLOGY.

PAPER II, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK
	4.2 Fascism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK
	.3 Feminism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IIIMONTH:JUNE&JULY ACADEMIC YEAR:2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION

PAPER III, UNIT I, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	4	Lokprashasan B.B.Patil	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline	4	Lokprashasan B.B.Patil	EXPLANATION
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST. PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: III MONTH: JULY_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THEORIES OF ADMINISTRATION.

PAPER III, UNIT II. , TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	Lokprashasan B.B.Patil	CHALK AND TALK

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	2.2. Bureaucratic Theory- Max Web	3	Lokprashasan B.B.Patil	LECTURE METHOD
	2.3. Human Relations Theory- Elton Mayo	3	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) AUGUST:III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT BASIC PRINCIPALS AND THEORIES OF ORGANISATION.

PAPER III, UNITIII, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
asic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	4	Lokprashasan B.B.Patil	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland	4	Lokprashasan B.B.Patil	EXPLANATION
	3,Leadership Theories- Trait theory, Contingency theory	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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TEACI PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICA- SC CLASS: SYBS(MARATHI) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2012-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORAY TECHNIQURES AND PRACTICES IN ADMINISTRATION.

PAPER IV, UNIT IV, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Techniques and Practices in Administration	1.Good Governance	4	Lokprashasan Suvarna Benake	CHALK AND TALK
	2. E-Governance	4	Lokprashasan Suvarna Benake	LECTURE METHOD
	3. Public-Private Partnership (PPP)	3	Lokprashasan Suvarna Benake	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER III, UNIT I, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
roduction to Indian Administration	1.Evolution and Constitutional Context	4	Lokprashasan B.B.Patil	EXPLANETION
	2.Salient features	3	Lokprashasan B.B.Patil	EXPLANETION

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	5. District Administration since Independ... ...ict Collector		Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPERIII , UNIT II, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	3	Lokprashasan B.B.Patil	EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission	4	Lokprashasan B.B.Patil	EXPLANETION
	raining: All- India Services, Central Services, State Services (Maharashtra)	3	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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The learners will be able to : TO LEARN ABOUT FINANCIALADM

PAPER III, UNIT III, TITLE	N	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ancial Administration	. Budgetary Process	4	Lokprashasan B.B.Patil	DISCUSSION CHALK & TALK
	:.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	Lokprashasan B.B.Patil	EXPLANETION
	.Comptroller and Auditor General	4	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: FEBRUARY & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORARY ISSUES IN INDIAN ADMINISTRATION.

PAPER III , UNIT IV, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Issues in Indian Administration	. Integrity in Administration: Lokpal, Lokyukta, CVC	4	Lokprashasan B.B.Patil	CHALK ABD TALK
	4.2. Citizen and Administration	3	Lokprashasan B.B.Patil	LECTURE METHOD
	3.Citizens' Charter	4	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: __CHEMISTRY ________________________ CLASS: ______FYBSC_(PCM)__________ SEMESTER: _____1_________ MONTH: _OCT 2022_______________ ACADEMIC YEAR: ______2022-2023_____________

LEARNING OBJECTIVE/S:

- The learners will be able to : To understand basics of ORGANIC CHEMISTRY
- To study hybridization sp, sp2, sp3,
- Shapes of ORGANIC molecules
- Differentate between Homolytic and Heterolytic.
- To study types of Reactions

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• Paper 1 • Unit 3	Alkanes,Alkenes,Alkanes,Alcohol,Aldehydes and ketones,Anhydride,Nitro Compounds	3	Clayden	Google Classroom
	Hybridization of ORGANIC compounds	3	Clayden	Google Classroom

• Basics of ORGANIC CHEMISTRY	Overlaping of Atomic Orbital,Bonding-Sigma and Pi,Shapes of Molecules,Properties-Ethane,Ethene,Ethyne.	2	Clayden	Google Classroom
	Electronic Effect Inductive,Electronic,Resonance,Mesomeric,Hyperconjugation,Dipole moment,Relative Strengths	3	Clayden,Text book	Google Classroom

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	Homolytic and Heterolytic fission,Nucleophilicity and Basicity	2	Clayden	Google Classroom
	Carbonation,carbanion,free radical.Types of Reactions Addition,Elimination,Substitution	2	Clayden,Text book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___RUTUJA HEMANT SAWANT ____ DEPARTMENT: _CHEMISTRY ____________________________ CLASS: FYBSC (PCM)____________________ SEMESTER: ____1___________ MONTH: OCT 2022_______________ ACADEMIC YEAR: _2022-2023___________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To understand about Chemical Kinetics in detail

• To differentiate between Order and Molecularity

• To find the Rate of Reactions by different methods

• To learn about different methods

• To study of solids

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• Paper 2 • Unit 1	Rate of Reactions- 1^{st} and 2^{nd} reactions, Order and Molecularity, integrated and grapical methods.	4	Text Books, Principal of	Google Classroom

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• CHMEICAL KINETICS AND LIQUID STATE			Chemical Kinetics	
	Ostwald's isolation, Half time And Drop number method, Surface tension, Viscosity	4	Text Books, Principal of Chemical Kinetics	Google Classroom
	Ostwald's viscometer, Refrective index, Molar Refraction.	3	Text Books, Principal of Chemical Kinetics	Google Classroom

	Polarizability, Abbe's Refractometer, Numericals	2	Text Books, Principal of Chemical Kinetics	Google Classroom
	Liquid crystals, classification and structure, Application of liquid crystal	2	Text Books, Principal of Chemical Kinetics	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______15____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: __CHEMISTRY _________________________ CLASS: ______FYBSC_(CBZ-A)____________ SEMESTER: _____1__________ MONTH: _OCT 2022______________ ACADEMIC YEAR: ______2022-2023______________

LEARNING OBJECTIVE/S:

- The learners will be able to : _To understand basics of ORGANIC CHEMISTRY
- To study hybridization sp, sp2, sp3,
- Shapes of ORGANIC molecules
- Differentate between Homolytic and Heterolytic.
- To study types of Reactions

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• Paper 1 • Unit 3 • Basics of ORGANIC CHEMISTRY	Alkanes,Alkenes,Alkanes,Alcohol,Aldehydes and ketones,Anhydride,Nitro Compounds Hybridization of ORGANIC compounds Overlaping of Atomic Orbital,Bonding-Sigma and Pi,Shapes of Molecules,Properties-Ethane,Ethene,Ethyne. EffectInductive,Electronic,Resonance,Mesomeric,Hyperconjugation,Dipole moment,Relative Strengths Homolytic and Heterolytic fission,Nucleophilicity and Basicity Carbonation,carbanion,free radical.Types of Reactions Addition,Elimination,Substitution	3 3 2 3 2 2	Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom

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			Text Book,Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

TEACHING PLAN (UNIT P

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: CHEMISTRY ___________________________ CLASS: _____SYBSC (PC-CZ)______________ SEMESTER: ________3_______ MONTH: __JULY 2022______________ ACADEMIC YEAR: _2022-2023____________________

LEARNING OBJECTIVE/S:

- The learners will be able to : __TO learn the chemistry of HALOGENTED HYDROCARBON
- To study about nucleophilic substitution
- To study about reactions with ALCOHOL,PHENOL,EPOXIDE.
- TO understand different types of reagents and it's uses in reaction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER 1 • UNIT 3	Alkyl Halides-SN1,SN2,SNi, reactions, Factors affecting reactions, Aryl Halides-substitution reaction, SnAr, addition-elimination, benzyne mechanism	7	Text Book, Clayden.	Google Classroom

• REACTIONS AND REACTIVITY OF HALOGENATED	Preparation using alkyl and Aryl halide, cyanide, and epoxides. Alcohols-Reaction of Aldehydes and Ketones, Acidity and reaction of alcohols	5	Text Book, Clayden	Google Classroom

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HYDROCARBON	Phenols-Preparation, Physical Properties, strength of acidic nature of alcohol and phenol, Resonance stabilization of phenoixde ion, Reactions of phenol.	3	Text Book, Clayden	Google Classroom
	Epoxides-Reactivity, Ring opening, reaction with halogen halide, alcohol and Hydrogen Cyanide	3	Text Book, Clayden	Google Classroom
	In neutral or basic conditions- Ammonia, Amines, grignard reagent, alkoxide	2	Text Book, Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __RUTUJA HEMANT SAWANT ____ DEPARTMENT: ________CHEMISTRY ____________________ CLASS: _____MSC PART 1______________ SEMESTER: ______1_________ MONTH: ____SEP 2022_____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about various THERMAL METHODS.
- To differentiate between DSC and DTA.
- To learn about the instrumentation and working of different instruments
- To understand need for automation in modern life.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
• PAPER- 4 • Unit- 4 • THERMAL METHODS	Recapitulation of thermal methods, thermoanalytical methods, types of curves, TGA VS DTA, TGA Instrumentation, working factors affecting TGA, Applications.	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	DSC- Instrumentation, working, block diag, Factors affecting curve, types of DSC	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom

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	DTA- Working, Principal, Instrumentation, Application, comparison to DSC	3	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	Application's of DSC, Automation of Chemical Analysis- Need and Objectives of Automation, flow injections and discrete automated system	5	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	Multiplayer films, Gas monitoring equipment, Automatic titrators and benifits	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __RUTUJA HEMANT SAWANT ____ DEPARTMENT: ____CHEMISTRY ________________________ CLASS: ____FYBSC (PCM)_______________ SEMESTER: ___2____________ MONTH: _JAN 2023_______________ ACADEMIC YEAR: __2022-2023__________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about Carbon Bonding.

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- To study about reaction and mechanism of various compounds
- To study about hydrocarbon it’s , properties and reactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 1 • UNIT- 3 • ALIPHATIC HYDROCARBON	C-C Sigma bond, Chemistry of alkanes- formation, Wurtz reaction, free radical halogenation- Wurtz fitting reactions. C-C Pi bond, formation of alkenes and alkynes, E1 and E2 reaction	4	Clayden	Google Classroom
	E1cb, Satzeff, Hoffman eliminations, Markownikoff and Anti- Markownikoff addition, Oxy and Demercuration, Hydroboration oxidation, Ozonolysis	5	Clayden	Google Classroom
	Syn-Anti Hydroxylation, 1,2 and 1,4 addition, Diels’s Alder reaction, Allylic and Benzylic Bromination	3	Clayden	Google Classroom
	Propen, 1-butene, toluene, ethyl-benzene Reactions of Alkyenes- Acidic, Electrophilic, Nucleophilic Additions	3	Clayden	Google Classroom
	Hydration to form carbon compounds, Alkylation of Terminal Alkyenes	2	Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: _____CHEMISTRY ______________________ CLASS: ___FYBSC (PCM)_______________ SEMESTER: _____2__________ MONTH: ___JAN 2023_____________ ACADEMIC YEAR: _2022-2023__________________

LEARNING OBJECTIVE/S:

- The learners will be able to : _To understand about ionic equilibria
- To understand about pH and buffer and their uses in reaction
- To learn about MOLECULAR SPECTROSCOPY
- To study about solids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 2 • UNIT- 1 • Ionic Equilibria,	Types of electrolytes, Degree of Ionization and factors affecting It, ionization constant, ionization product of water, ionization of weak acids and base, pH scale, common ion effect.	5	J. Butler, Text Book	Google Classroom
	Buffers- Types, Henderson equations for acid and base, Buffer action, Buffer capacity, Numericals	3	J. Butler, Text Book	Google Classroom

• Molecular Spectroscopy, • Solid State Chemistry.	Molecular Spectroscopy- EMR and spectrum, planks equation, absorption, emission, scattering, fluorescence, electronic. Vibrational and Rotational transition and Numericals	4	C.N Banwell, Text Book	Google Classroom
	Solid State Chemistry- Types of solids, Crystal lattice, lattice points, unit cell, space lattice, lattice plan.	2	A.R WEST, Text Book	Google Classroom

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	Crystallography- Law of Constancy, interfacial Angel, Law of symmetry, Law of Rational indices	3	Text Book, A.R WEST	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: ________CHEMISTRY ____________________ CLASS: _____FYBSC (CBZ-A)______________ SEMESTER: ______2_________ MONTH: __JAN 2023_______________ ACADEMIC YEAR: ___2022-2023_________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about Carbon Bonding.
- To study about reaction and mechanism of various compounds

- To study about hydrocarbon it's , properties and reactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 1 • UNIT- 3 • Aliphatic Hydrocarbon	C-C Sigma bond, Chemistry of alkanes- formation, Wurtz reaction, free radical halogenation- Wurtz fitting reactions.	4	John C Kotz, Text Book	Google Classroom
	C-C Pi bond, formation of alkenes and alkynes, E1 and E2 reaction	5	John C Kotz, Text Book	Google Classroom
	E1cb, Satzeff, Hoffman eliminations, Markownikoff and Anti- Markownikoff addition, Oxy and Demercuration,	3	Clayden Text Book	Google Classroom

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	Hydroboration oxidation, Ozonolysis			
	Syn-Anti Hydroxylation, 1,2 and 1,4 addition, Diels's Alder reaction, Allylic and Benzylic Bromination	2	Clayden Text Book	Google Classroom

	Propen, 1-butene, toluene, ethyl-benzene Reactions of Alkyenes- Acidic, Electrophilic, Nucleophilic Additions Hydration to form carbon compounds, Alkylation of Terminal Alkyenes	1	Clayden Text Book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____RUTUJA HEMANT SAWANT ____ DEPARTMENT: _________CHEMISTRY ___________________ CLASS: _______SYBSC (PC-CZ)____________ SEMESTER: ______4_________ MONTH: NOV 2022______________ ACADEMIC YEAR: ___2022-2023_________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To study about Carboxylic Acid.
- To study about Carboxylic Acid Derivatives.
- To study about Sulphonic Acid and it's Derivatives
- To learn about Preparation and Uses of Derivatives .

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER-1 • UNIT- 3 • Carboxylic Acid and their Derivatives • Sulphonic Acids.	Nomenclature, Structure, physical properties, Acidity of carboxylic Acid, effects of substitute on acid strength of aliphatic aromatic carboxylic Acid, prep of carboxylic acid	3	Clayden Text Book	Google Classroom
	Carbonation of Grignard, Hydrolysis of nitriles, Acidity, Salt formation, decarboxylation, HVZ. Conversion- To acid chloride, ester, amides, acid anhydride	4	Clayden Text Book	Google Classroom
	Mechanism of Nucleophile Acyl and acid catalysed substitution, Interconversion of acid derivatives by Nucleophile substitution, Claisen and Dieckmann Condensation	5	Clayden Text Book	Google Classroom
	Sulphonic Acid- Preparation by sulphonation of benzene toluene and naphthalene,Acidity of arenes Sulphonic Acids, comparative acidity of carboxylic and Sulphonic acid	3	Clayden Text Book	Google Classroom
	Salt formation, desulphonation, reactions with alcohol and PCL5, IPSO substitution	2	Clayden Text Book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____RUTUJA__HEMANT SAWANT____ DEPARTMENT: CHEMISTRY ___________________________ CLASS: ___MSC PART 1_______________ SEMESTER: ______2_________ MONTH: JAN 2022________________ ACADEMIC YEAR: ___2022-2023_________________

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LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about various ELECTRO-ANALYTICAL METHODS
- To study about ELECTROGRAVIMETERY as a concept.
- To study about COULOMETRY it's principals, types, Applications.
- To explore new techniques in Analytical Chemistry on whole.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER – 4 • UNIT- 4 • ELECTO ANALYTICAL METHODS	Ion Selective Potentiometery and it's types of electrodes, Solid-State, Precipitate, Liquid-Liquid, Enzyme and Gas sensing electrodes	4	Vogal, Skoog, Principals in Analytical Chemistry	Google Classroom
	Ion Selective Field Effect Transistors, Biocatalytic Membrane Electrode, Enzyme Based Bio-Sensor, Sums. Polarography- Intro, Principal, Nature of Wave	3	Vogal, Skoog, Principles in Analytical Chemistry	Google Classroom
	Ilkovic eq, Derivation with Cotteral eq,Effect of complex formation on polarographic wave, Sums Electrogravimetery-Introduction, Principal	3	Vogal, Skoog, Principles in Analytical Chemistry	Google Classroom

	Instrumentation, constant current and constant potential electrolysis, factors affecting nature of deposit, application's. Coulometery- Intro, Principal, Types- Controlled Potienal, Controlled Current.	4	Vogal, Skoog, Principals in Analytical Chemistry	Google Classroom
	Applications of Coulometery, Advantages and Numericals entire chapter	3	Vogal, Skoog, Principal in Analytical Chemistry	Google Classroom

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey________________DEPARTMENT: Chemistry__________________ CLASS: _F.Y.B.Sc._________________

SEMESTER: __I____________ MONTH: _ _____________ACADEMIC YEAR: ___2022-23_________________

LEARNING OBJECTIVE/S:
The learners will be able to :

To gain knowledge about the Nomenclature mono and bi-functional aliphatic compounds .

To understand Bonding and Structure of organic compounds .

To study the Fundamentals of organic reaction mechanism:
To learn Electronic Effects and bond fission.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-I (General Chemistry) Unit III 3. Basics of Organic Chemistry	**3. Basics of Organic Chemistry** **3.1 Classification and Nomenclature of Organic Compounds:** Review of basic rules of IUPAC nomenclature. Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitrocompounds, nitriles and amines; including their cyclic analogues. **3.2 Bonding and Structure of organic compounds:** Hybridization: sp_3, sp_2, sp hybridization of carbon and nitrogen; sp_3 and sp_2 hybridizations of oxygen in Organic compounds (alcohol, ether, aldehyde, ketone, carboxylic acid, ester, cyanide, amine and amide)	**(5L)** **(4L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	Overlap of atomic orbitals: Overlaps of atomic orbitals to form sigma and pi bonds, shapes of organic molecules. Shapes of molecules; Influence of hybridization on bond properties (as applicable toethane, ethene, ethyne) **3.3 Fundamentals of organic reaction mechanism:** **Electronic Effects:** Inductive, electromeric, resonance and mesomeric effects,hyperconjugation and their applications; Dipole moment; Organic acids and bases; their relative strengths. **Bond fission:** Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles; Nucleophilicity and basicity; **Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability of reactive intermediates:** Carbocations, Carbanions and Free radicals. **Introduction to types of organic reactions:** Addition, Elimination and Substitution reaction. (With one example of each)	**(6L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey _DEPARTMENT: Chemistry_ CLASS: _F.Y.B.Sc. SEMESTER: __I_____________ MONTH_ ______________ACADEMIC YEAR: ___2022-23__________________

LEARNING OBJECTIVE/S: The learners will be able to : Understand basics of chemical kinetics and predict reaction mechanism.Calculate rate constant of zero, first and second order reaction. The basics of solutions, Colligative properties, and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II (General Chemistry) Unit-I Title- Physical Chemistry	**1.1 Chemical Kinetics:** Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, integrated rate equation of first and second order reactions (with equal initial concentration of reactants) (Numericals expected) Determination of order of reaction by (a) Integration method (b) Graphical method (c)Ostwald's isolation method (d) Half time method (Numericals expected) **1.2 Liquid State:** Surface tension: Introduction, methods of determination of surface tension by drop number method (Numericals expected) Viscosity: Introduction, coefficient of viscosity, relative viscosity, specific viscosity,reduced viscosity, determination of viscosity by Ostwald viscometer (Numericals expected) Refractive index: Introduction, molar refraction and polarizability, determination of refractive index by Abbe's refractometer (Numericals expected) Liquid crystals: Introduction, classification and structure of thermotropic phases (Nematic,smectic and cholesteric phases), applications of liquid crystals	**(8L)** **(7L)**	Text Book, Reference Book, You tube video	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey_____________ DEPARTMENT: Chemistry___________________ CLASS: _F.Y.B.Sc.__________________
SEMESTER: __II_____________ MONTH: ____________ ACADEMIC YEAR: ___2022-23________________

LEARNING OBJECTIVE/S: The learners will be able to :

Formation of alkanes, Wurtz Reaction,

Wurtz-Fittig Reactions,

Mechanism of E1, E2,E1cb reactions.

Saytzeff and Hofmann eliminations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-I (General Chemistry) Unit III 3. Basics of Organic Chemistry	**3. Chemistry of Aliphatic Hydrocarbons** **3.1 Carbon-Carbon sigma bonds:** **Chemistry of alkanes:** Formation of alkanes, Wurtz Reaction, Wurtz-Fittig Reactions,Free radical substitutions: Halogenation - relative reactivity and selectivity. **3.2 Carbon-Carbon pi bonds:** **Formation of alkenes and alkynes by elimination reactions:** Mechanism of E1, E2,E1cb reactions. Saytzeff and Hofmann eliminations. **Reactions of alkenes:** Electrophilic additions their mechanisms (Markownikoff/ AntiMarkownikoff addition),Mechanism of oxymercuration-demercuration, hydroboration-oxidation, ozonolysis,reduction(catalytic and chemical), syn and anti hydroxylation (oxidation). 1, 2-and 1, 4-addition reactions in	**(3L)** **(12L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	conjugated dienes and, Diels-Alder reaction; Allylic and benzylic bromination using N-bromosuccinimide and mechanism, e.g. propene, 1-butene, toluene,ethylbenzene. **Reactions of alkynes:** Acidity, Electrophilic and Nucleophilic additions. Hydration toform carbonyl compounds, Alkylation of terminal alkynes.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Dr.Arti Dubey__________________DEPARTMENT: __Chemistry________________CLASS: __F.Y.B.Sc_________________

SEMESTER: __II_____________ MONTH: ___ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:

The learners will be able to : _

- Understand The fundamentals of ionic equilibrium and its applications
- Learn about the basics of Molecular Spectroscopy **.**
- Know about the Solid State Chemistry .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper II Unit I TITLE Physical Chemistry	**1.1 Ionic Equilibria:** Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water, ionization of weak acids and bases, pH scale, common ion effect, dissociation constants of mono-, di and triprotic acid (exact treatment for monoprotic acid) Buffers: Introduction, types of buffers, derivation of Henderson equation for acidic and basic buffers, buffer action, buffer capacity (Numericals expected) **1.2 Molecular Spectroscopy:** Electromagnetic radiation, electromagnetic spectrum, Planck's equation, interaction of electromagnetic radiation with matter: Absorption, emission, scattering, flourescence, electronic, vibrational and rotational transitions, Beer-Lambert's law (Numericals expected) **1.3 Solid State Chemistry** Types of solids, crystal lattice, lattice points, unit cell, space lattice and lattice plane, laws of crystallography: Law of constancy of interfacial angle, law of symmetry and law of rational indices (Numericals expected)	**(7L)** **(4L)** **(4L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15 L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___III____________ MONTH: _______ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to :
Know about Chemical Bonding, Non-Directional Bonding, Directional Bonding- Orbital approach, Molecular Orbital Theory **.**

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

Course Title: (General Chemistry) Paper-I Unit-II Inorganic Chemistry	**Unit-II** **Chemical Bonding** **2.1 Non-Directional Bonding** 2.1.1 Ionic Bond: Conditions for the Formation of Ionic Bond. 2.1.2 Types of Ionic Crystals 2.1.3 Radius Ratio Rules 2.1.4 Lattice Energy, Borne-Lande Equation 2.1.5 Kapustinski Equation 2.1.6 Born-Haber Cycle and its Application **2.2. Directional Bonding: Orbital Approach.** 2.2.1 Covalent Bonding The Valence Bond Theory- Introduction and basic tenets. 2.2.2 Interaction between two hydrogen atoms and the Potential energy diagram of the resultant system. 2.2.3 Corrections applied to the system of two hydrogen atoms Formation of H_2	**(4L)** **(6L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	2.2.4 Homonuclear diatomic molecules from He_2 to Ne_2 2.2.5 Resonance and the concept of Formal Charge; Rules for Resonance or Canonical structures. 2.2.6 Bonding in Polyatomic Species: The role of Hybridization. And types of hybrid orbitals-*sp*, sp^2, sp^3, sp^3d, sp^2d^2 and sp^2d sp^3d^2. 2.2.7 Equivalent and Non-Equivalent hybrid orbitals 2.2.8 Contribution of a given atomic orbital to the hybrid orbitals (with reference to sp^3 hybridisation as in CH_4, NH_3 and H_2O and series like NH_3, PH_3, AsH_3, BiH_3) 2.3 **Molecular Orbital Theory** 2.3.1. Comparing Atomic Orbitals and Molecular Orbitals. 2.3.2. Linear combination of atomic orbitals. to give molecular orbitals LCAO-MO approach for diatomic homonuclear molecules). 2.3.4. Wave mechanical treatment for molecular orbitals (H_2^+ and H_2) 2.3.4 Molecular orbital Theory and Bond Order and magnetic property: with reference to O_2,O_2^+ O_2^-,O_2^{2-} (Problems and numerical problems expected wherever possible)	**(5L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___III____________ MONTH: ______ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to :

- To gain knowledge about the Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds.
- To know about General mechanism of nucleophilic addition reaction.
- To understand the Reactions of aldehydes and ketones
- To learn common reaction mechanisms of Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro reaction.
To gain knowledge about the Keto-enol tautomerism.
- To study the Active methylene compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Course Title: (General Chemistry) Paper-II **Unit III: Organic Chemistry**	**Unit III: Organic Chemistry** **Carbonyl Compounds:** 3.1 Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds. Structure, reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters, Rosenmund reduction, Gattermann – Koch formylation and Friedel Craft acylation of arenes 3.2 General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition reactions. 3.3 Reactions of aldehydes and ketones with $NaHSO_3$, HCN, RMgX, alcohol, amine, phenyl hydrazine, 2,4-Dinitrophenyl hydrazine, $LiAlH_4$ and $NaBH_4$. 3.4 Mechanisms of following reactions: Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro	**[15L]**	Text Book, Reference Book, You tube video	Chalk and talk method
	reaction. 3.5 Keto-enol tautomerism: Mechanism of acid and base catalysed enolization 3.6 Active methylene compounds: Acetylacetone, ethyl acetoacetate diethyl malonate, stabilised enols. Reactions of Acetylacetone and ethyl acetoacetate (alkylation, conversion to ketone, mono- and dicarboxylic acid)			

SIGNATURE OF THE STAFF SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15 L______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Arti Dubey____________________ DEPARTMENT: _Chemistry___________CLASS: ___S.Y.B.Sc._______________

SEMESTER: ___III____________ MONTH: _________________ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to : ___

1. Select a method of analysis
2. Decide how to identify a sample and prepare it for analysis
3. Select a procedure for analysis
4. Identify sources of possible errors in the results obtained.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

PAPER –III Unit I Title Analytical Chemistry	Unit **I- Intorduction to Analytical Chemistry and Statistical Treatment of analytical data-I** *(Problems including numericals expected wherever necessary)* **1.1. Role of Analytical Chemistry (9 L)** 1.1.1. Language of analytical chemistry: important terms and their significance in Analytical Chemistry. 1.1.2. Purpose of Chemical Analysis; Analysis Based (i) On the nature of information required: (Proximate, Partial, Trace, Complete Analysis) and (ii) On the size of the sample used (Macro, semi micro and micro analysis) 1.1.3. Classical and Non-Classical Methods of Analysis; their types and importance. **1.2. Significance of Sampling in Analytical Chemistry** 1.2.1. Terms involved in Sampling 1.2.2. Types of Sampling 1.2.3. Sampling techniques	**(9 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	1.3. Results of Analysis. 1.3.1. Errors in Analysis and their types 1.3.2. Precision and Accuracy in Analysis 1.3.3. Corrections for Determinate Errors *(Problems including Numericals expected wherever required)*	**(6L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __(15 L)________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___IV____________ MONTH: ______________ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to :

To understand the different aspects and importance variable oxidation states, Origin of colour and Magnetic properties for transition metals and their compounds __

To study the Selected topics on Chemistry of Titanium and vanadium.

To gain knowledge about the Coordination Chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Course Title: (General Chemistry) Paper-I Unit-II Inorganic Chemistry	**Unit-II** **2.1 Comparative Chemistry of the transition metals (9 L)** **2.1.1** Position in the periodic table; Natural occurrence principal ores and minerals; **2.1.2** Significance of special stability of d_0, d_5 and d_{10} leading to variable oxidation states; Unusual oxidation states and their stabilities in aqueous solutions (with special reference to vanadium, and chromium.) **2.1.3** Origin of colour for transition metals and their compounds: such as reflectivity, surface coatings, particle size, packing density for metals and nature of d-orbitals, number of electrons in the d orbitals, geometry, and ability for charge transfer). **2.1.4** Magnetic properties of transition metal compounds: Origin of magnetism-spin and orbital motion of electrons; equation for spin only and spin-orbital magnetism in terms of Bohr magnetons (No derivation of relevant equations expected); Reasons for quenching	**(9 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	of orbital moments. **2.1.5** Chemistry of Titanium and vanadium: properties of Oxides and chlorides; use in titrimetric analysis **2.1.6** Qualitative tests for transition metal ions: General considerations in devising tests (with reference to Chromium, Manganese, iron, Cobalt Nickel and Copper) **2.2 Coordination Chemistry :** **2.2.1 Introduction to Chemistry of Coordination Compounds** i. Historical perspectives: Early ideas on coordination compounds ii. Basic terms and nomenclature. iii. Types of ligands iv. Isomerism :General Types with special reference to stereoisomerism of coordination compounds (C.N=6) v. Evidence for the formation of coordination compounds, **2.2.2. Theories of coordination compounds** i. Werner's Theory of coordination compounds, ii. Effective atomic number rule. iii. Eighteen electron Rule **2.2.3. Nature of the Metal-Ligand Bond:** i.) Valence Bond Theory; Hybridisation of the central metal orbitals-sp^3, sd^3/d^3s sp^3d^2/d^2sp^3, sp^2d, ii.) Inner and outer orbital complexes of .(suitable examples of Mn(II) Fe(II),Fe(III),Co(II)/Co(III),Ni(II), Cu(II) Zn(II) complexes with ligands like aqua, ammonia CN^- and halides may be used) iii.) Limitations of V.B.T **2.2.4.** Application of coordination compounds.	**(6 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15L_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey____________________ DEPARTMENT: _Chemistry___________CLASS: ___S.Y.B.Sc.______________

SEMESTER: ___IV___________ MONTH: _____________ _ ACADEMIC YEAR: __2022-23__________________

LEARNING OBJECTIVE/S:

The learners will be able to : To gain knowledge about the Nomenclature, Preparation and Reactions of aliphatic, and aromatic compounds. To learn common reaction and mechanisms of Salt Formation, N-acylation, N-alkylation, Hofmann’s exhaustive methylation (HEM),Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation. To study about Heterocyclic Compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER –II Unit III Title: Organic Chemistry	**Unit III: Organic Chemistry** **Nitrogen containing compounds and heterocyclic compounds: 3.1 Amines:** Nomenclature, effect of substituent on basicity of aliphatic and aromatic amines; 3.1.1. Preparation: Reduction ofaromaticnitro compounds using catalytic hydrogenation,chemical reduction using Fe-HCI, Sn-HCl, Zn-acetic acid, reduction of nitriles, ammonolysis of halides, reductive amination , Hofmann bromamide reaction. 3.1.2. Reactions- Salt Formation, N-acylation, N-alkylation, Hofmann’s exhaustive methylation (HEM),Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation. **3.2 Diazonium Salts**: Preparation and their reactions/synthetic application - Sandmeyer	**(7 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

	reaction, Gattermann reaction, Gomberg reaction, Replacement of diazo group by -H,-OH. Azo coupling with phenols, naphthols and aromatic amines, reduction of diazonium salt to aryl hydrazine and hydroazobenzene **3.3 Heterocyclic Compounds:** 3.3.1. Classification, nomenclature, electronic structure, aromaticity in 5-numbered and 6-membered rings containing one heteroatom; 3.3.2. Synthesis of Furan, Pyrrole (Paal-Knorr synthesis, Knorr pyrrole synthesis, and Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis), 3.3.3. Reactivity of furan, pyrrole and thiophene towards electrophilic substitution reactions on the basis of stability of intermediate and of pyridine on the basis of electron distribution. Reactivity of pyridine towards nucleophilic substitution on the basis of electron distribution. 3.3.4. Reactions of furan, pyrrole and thiophene: halogenation, nitration, sulphonation, Vilsmeier-Haack reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction, Ring opening. Pyrrole: Acidity and basicity of pyrrole. Comparison of basicity of pyrrole and pyrrolidine. 3.3.5. Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine. Sulphonation of pyridine (with and without catalyst), reduction and action of sodamide (Chichibabin reaction).	**(8 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey______________________ DEPARTMENT: _Chemistry_____________CLASS: ___S.Y.B.Sc._________________

SEMESTER: ___IV_____________ MONTH: __________________ ACADEMIC YEAR: __2022-23____________________

LEARNING OBJECTIVE/S:
The learners will be able to understand :

- The importance of separation in sample treatment
- Various methods of separations
- How to select a method of separation of an analyte from the matrix
- How a solute gets distributed between two immiscible phases
- Principle of solvent extraction and various terms involved therein
- Effect of various parameters on solvent extraction of a solute
- Classification of Chromatographic methods
- Paper and thin layer chromatography and using them in practice.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

PAPER –III Unit I Title: analytical Chemistry	**1. Separation Techniques in Analytical Chemistry** **1.1.** An Introduction to Analytical Separations and its importance in analysis. **1.2.** Estimation of an analyte without effecting separation. **1.3.** Types of separation methods **1.3.1.** Based on Solubilities (Precipitation, Filtration Crystallisation) **1.3.2.** Based on Gravity- Centrifugation **1.3.3.** Based on volatility-Distillation ; **1.3.4.** Based on Electrical effects-Electrophoresis **1.3.5.** Based on retention capacity of a Stationary Phase - Chromatography; **1.3.6.** Based on distribution in two immiscible phases-Solvent	**(02 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	Extraction; **1.3.7.** Based on capacity to exchange with a resin-Ion Exchange; **1.4. Electrophoresis:** Principles, Basic Instrumentation, Working and Application in separation of biomolecules like enzymes and DNA. **1.5. Solvent extraction** 1.5.1. Introduction, Nernst distribution Law, Distribution Ratio, Partition Coefficient. 1.5.2. Conditions of extraction: Equilibration time, Solvent volumes, temperature, pH. 1.5.3. Single step and multi step extraction, Percentage extraction for single step and multistep extraction. Separation factor. 1.5.4. Batch and continuous extraction **1.6. Chromatography** 1.6.1. Introduction to Chromatography 1.6.2. Classification of chromatographic methods based on stationary and mobile phase 1.6.3. Paper Chromatography: Principle, techniques and applications of Paper Chromatography in separation of cations. 1.6.4. Thin layer Chromatography Principle, technique and Applications in determining the purity of a given solute; Following progress of a given reaction .	**(02 L)** **(06 L)** **(05 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

___15L_______

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NAME OF THE STAFF: ___Dr.Arti Dubey______________ DEPARTMENT: Chemistry_______________ CLASS: _M.Sc.(Part-I)________________

SEMESTER: ___I_________ MONTH: _ _________________ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Understand Materials Chemistry and Nanomaterials

Study about Solid State Chemistry, Structures of Compounds ,Methods of preparation for inorganic solids Preparative methods of Nanomaterials

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-II Inorganic chemistry Unit-III Title-Materials Chemistry and Nanomaterials	3.1 **Solid State Chemistry** 3.1.1. Electronic structure of solids and band theory, Fermi level, K Space and Brillouin Zones. 3.1.2. Structures of Compounds of the type: AB [nickel arsenide (NiAs)], AB2 [fluorite (CaF2) and anti-fluorite structures, rutile (TiO2) structure and layer structure [cadmium chloride and iodide (CdCl2, CdI2)]. 3.1.3. Methods of preparation for inorganic solids: Ceramic method, precursor method, sol-gel method (applications in Biosensors), microwave synthesis (discussion on principles, examples, merits and demerits are expected) 3.2 **Nanomaterials** 3.2.1. Preparative methods: Chemical methods, Solvothermal, Combustion synthesis, Microwave, Co-precipitation, Langmuir Blodgett(L-B) method, Biological methods: Synthesis using microorganisms. 3.2.2. Applications in the field of semiconductors, solar cells	**[15 L]**	Reference Book, You tube video	Chalk and Talk Method,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___Dr.Arti Dubey______________ DEPARTMENT: __Chemistry_______________ CLASS: _M.Sc.(Part-I)________________

SEMESTER: ___II__________ MONTH: _ ________________ ACADEMIC YEAR: __2022-23__________________

LEARNING OBJECTIVE/S:
The learners will be able to :
Understand heavy metals
Study about heavy metals and their sources, distribution, speciation, biochemical effects and toxicology, control and treatment.
Learn Itai-itai disease for Cadmium toxicity, and Arsenic Poisoning in the Indo-Bangladesh region
Understand biological implication of radioactive materials. Effect of low level radiation on cells- Its applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-II Inorganic chemistry Unit-III Title **Environmental Chemistry**	**3.1. Conception of Heavy Metals:** Critical discussion on heavy metals **3.2. Toxicity of metallic species**: Mercury, lead, cadmium, arsenic, copper and chromium, with respect to their sources, distribution, speciation, biochemical effects and toxicology, control and treatment. **3.3. Case Studies**: (a) Itai-itai disease for Cadmium toxicity, (b) Arsenic Poisoning in the Indo-Bangladesh region. .**3.4.Interaction of radiation in context with the environment:**Sources and biological implication of radioactive materials. Effect of low level radiation on cells- Its applications in diagnosis and treatment, Effect of radiation on cell proliferation and cancer.	**[15 L]**	Reference Book, You tube video	Chalk and Talk Method,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: _July________________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of QSAR factor and how to relatedto drug design.Also understand the synthesis of some drug.they understand the concept of drug.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II: Drug Design, Develepment And Synthesis	2.1: QSAR Parameter Steric Factor , Talf Equation	5L	1.Medicinal Chemistry,Sriram &Yogeeswari,2nd edition 2.A Introduction to drug design,Pandeya and Dimmock.	White Board and Markar
	2.2: Mordern method of drug design & synthesis	3L		
	2.3: Concept of prodrug & soft drug	3L		
	2.4: Synthesis and application of the drug	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

SIGNATURE OF THE STAFF Gnaphade

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: __July_______________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the Pericyclic reactions and it's different types.Also understand the Selectivity of cycloaddition reaction and sigmatropic reaction.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER I Unit II: Pericyclic Reaction	2.1: Cycloaddition Reaction & Other Cycloaddition Reaction	7L	1.Pericyclic Reaction, Ian Fleming 2.Pericyclic Reaction- A mechanistic Approach, S. M. Mukharji.	White Board and Markar
	2.2: Cycloaddition Reaction	3L		
	2.3: Sigmatropic Rearrangement	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.JAYASHRI GOPAL NAPHADE___DEPARTMENT: __CHEMISTRY_ CLASS: _M.Sc II (ORGANIC CHEMISTRY) SEMESTER: ___IV____________ MONTH: _____January____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the how the protection of group is necessary in organic synthesis also understand the concept of Umpolung.they also understand the concept of retrosynthetic an d how to plan the retrosynthetic apporoach.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERANCES	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT-I Desiging Organic Synthesis-i	1.1:Protectin group in organic Synthesis	3L	1.Protective groups in Organic synthesis,Greene and Wuts 2.Principle of organic synthesis, R.O.C. Norman & Coxon. 3.Organic Synthesis:The Disconnection Approach,Stuart Warren.	White Board & Marker
	1.2: Concept of Umpolung	3L		
	1.3:Introduction to Retrosynthetic analysis & synthetic planning	9L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE ___DEPARTMENT: __CHEMISTRY_CLASS: _M.Sc.II(ORGANIC CHEMISTRY) SEMESTER: _IV_ MONTH: __January_______________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: understand the different sources use in research .some information about journals.They understand different resources used during research.like information technology and library.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT-I RESEARCH METHODOLOGY	1.1: Print: Primary, Secondary,Tertiary sources	5L	Research methodology,C.R.Kothari	Projector
	1.2::Journals	5L		
	1.3:Information Technology & Library Resources	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr. JAYASHRI GOPAL NAPHADE __DEPARTMENT: __CHEMISTRY___

CLASS: ___S.Y.B.Sc (PC-CZ)__ SEMESTER: __III___________ MONTH: ___July_____________

ACADEMIC YEAR: ___2022-2023_________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature ,structure ,preparation and reactions aof aldehyde and ketones.Also understand mechanism of some name reaction._____

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT –III Carbonyl componnd	3.1: Nomencluture,structure,reactivity & method of Preparation of aldehyde & Ketone	6L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION)	Chalk -Board
	3.2: General mechanism of nuclophilic addition	1L		
	3.3: Reactions of aldehyde and ketones	3L		
	3.4: Mechanism of some name Reactions	2L		
	3.5: Keto-enol tautomerisation 3.6: Active Methylene compound	1L 2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: __CHEMISTRY_______CLASS: __ S.Y.B.Sc (PC-CZ)__ ________ SEMESTER: ______IV_________ MONTH: __December_______________ ACADEMIC YEAR: _____2022-2023________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature and preparation and reaction of Amines and Diazonium salt.They also understand what is heterocyclic compound it's nomenclature,preparation and reaction of furan.Pyrrole,Thiophene and Pyridine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
PAPER-II UNIT –III Nitrogen Containing compound & Heterocyclic compound	3.1:Amines: Nomencluture , preparation and Reactions	4L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION	Chalk - Board
	3.2: Diazonium Salt: Preparation,reactions & synthetic application	3L		
	3.3:Hetrocyclic compound :3.3.1:classification,nomenclature,structure	8L		
	3.3.2:synthesis of furan,pyrrole,Thiophene,pyridine 3.3.3:Reactivityof furan,pyrrole,Thiophene,pyridine			
	3.3.4:Reactions of furan,pyrrole,Thiophene 3.3.5: Pyridine:Basicity,Reaction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____Dr.JAYASHRI GOPAL NAPHADE ---DEPARTMENT: ___CHEMISTRY__________________________

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CLASS: ____T.Y.B.Sc___ SEMESTER: ____V___ MONTH: __July_______________ ACADEMIC YEAR: _____2022-2023_____

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the concept of Dyestuff ,it's type ,nomenclature and application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-III CHEMISTRY OF DYESTUFF	3.1:Introduction to the Dyestuff Induestries	5L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	3.2: Substrates for Dyes : Types of fibres	3L		
	3.3: classification of Dyes based on Applications and Dyeing methods	7L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: _CHEMISTRY_ CLASS: __T.Y.B.Sc_ SEMESTER:

SIGNATURE OF THE STAFF Gnaphade

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant Keshav
Patil College of Commerce Vidhya Dayanand Patil
College of Arts
VIVA COLLEGE, Virar (W)

[Document title]

_________VI______ MONTH: _December________________ ACADEMIC YEAR: ______2022-2023_______________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the classification of dyes and synthesis of some dyes.Also understand the hards of synthetic dyes on health and environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-VII CHEMISTRY OF DYE STUFF	7.1:Classification of dyes based on chemical constitution & synthesis of selected dyes.	12 L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	7.2: Health and Environmental Hazards of synthetic dyes & their remediation process.	3 L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE________________________________DEPARTMENT: ________CHEMISTRY______CLASS: _TYBSC_________________
ACADEMIC YEAR: 2022-23 SEMESTER: _____Vth MONTH: June 2021
LEARNING OBJECTIVE/S:
The learners will be able to :

1. To study redox titration like Construction of the titration curves and calculation of E_{system} in aqueous medium , Theory of redox indicators, Criteria for selection of an indicator in details.

2. To study complexometric titrations in details like construction of titration curve, Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes,Selectivity of EDTA as a titrant,Factors enhancing selectivity with examples,Types of EDTA titrations,Metallochromic indicators, theory, examples and applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 2 **CLASSICAL METHODS OF ANALYSIS (TITRIMETRY) (3 & 6 UNITS)**	***2.1* Redox Titrations (Numerical and word Problems are expected)** *2.1.1* Introduction 2.1.2 Construction of the titration curves and calculation of E_{system}	08L	Saujanya publicationof analytical chemistry,sheth publication,Himalaya publication textbook,	Online video lecture on Google meet
	in aqueous medium in case of: *(1)* One electron system *(2)* Multielectron system 2.1.3 Theory of redox indicators, Criteria for selection of an indicator Use of diphenyl amine and ferroin as redox indicators			

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	2.2 Complexometric Titrations 2.2.1 Introduction, construction of titration curve 2.2.2 Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes, Selectivity of EDTA as a titrant. Factors enhancing selectivity with examples. Advantages and limitations of EDTA as a titrant. 2.2.3 Types of EDTA titrations.	07L	Same as above	Same as above

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	2.2.4 Metallochromic indicators, theory, examples and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _______AJITKUMAR INGLE____________________DEPARTMENT: ____CHEMISTRY__
__CLASS: __TYBSC_________ SEMESTER: _VTH MONTH: June 2021
__ ACADEMIC YEAR: _2022-23
__ LEARNING OBJECTIVE/S:
The learners will be able to :

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1) To study solvent extraction in detail like Factors affecting extraction, Concept of $[pH]_{1/2}$ and its significance, Craig's counter current extraction.

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2)To study HPLC instrumentation, working and applications along with detectors. 3)To study HPTLC instrumentation, working and applications in details.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV UNIT IV **METHODS OF SEPARATION – I (6 UNITS)**	***4.1* Solvent Extraction** *4.1.1* Factors affecting extraction: Chelation, Ion pair formation and Solvation *4.1.2* Graph of percent extraction versus pH. Concept of $[pH]_{1/2}$ and its significance (derivation not expected) 4.1.3 Craig's counter current extraction: Principle, apparatus and applications 4.1.4 Solid phase extraction: Principle, process and applications with	06L	Saujanya publication,sheth publication,Himalaya publication textbook of analytical chemistry,	Online video lecture on Google meet

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	special reference to water and industrial effluent analysis. 4.1.5 Comparison of solid phase extraction and solvent extraction.			

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	4.2 High Performance Liquid chromatography (HPLC) 4.2.1 Introduction and Principle Instrumentation- components with their significance: Solvent Reservoir, Degassing system, Pumps-(reciprocating pumps, screw driven- syringe type pumps, pneumatic pumps, advantages and disadvantages of each pump), Precolumn, Sample injection system, HPLC Columns, Detectors(UV – Visible detector, Refractive index detector) 4.2.2 Qualitative and Quantitative Applications of HPLC	06L	SAME AS ABOVE	SAME AS ABOVE
	4.3 High Performance Thin Layer Chromatography (HPTLC) 4.3.1 Introduction and Principle	03L	SAME AS ABOVE	SAME AS ABOVE

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	Stationary phase, Sample application and mobile phase 4.3.2 Detectors *a)* Scanning densitometer- Components. Types of densitometer- Single beam and Double beam *b)* Fluorometric Detector *4.3.3* Advantages, disadvantages and applications *4.3.4* Comparison of TLC and HPTLC			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand UV – Visible spectroscopy, its basic theory and applications.
Study mass spectrometry, determination of molecular formula and its applications.
Learn natural products like terpenoids, alkaloids in detail.
To gain knowledge of hormones like adrenaline.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Spectroscopy-I And Natural Products**	Electromagnetic spectrum, units of wavelength and frequency, UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome.	02	Introduction to spectroscopy (third edition), Pavia	Blackboard and ppt.
	Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula	03	Spectral identification of organic molecules by Silverstein.	Blackboard and ppt.
	Natural products: terpenoids, their introduction, isoprene rule, special isoprene rule, structural determination of citral,	04	Textbook, Himalaya publication	Blackboard and ppt.

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	Alkaloids introduction and occurrence, structural determination of nicotine,	04	Textbook, Himalaya publication	Blackboard and ppt.
	Hormones: Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.	02	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt. .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study role of radicals in organic synthesis and their applications in detail.
Learn generation, stability, reactivity and structural and stereochemical properties of free radicals,.
Study characteristic reactions and applications of radicals in synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-II, Synthetic Organic Chemistry-I **UNIT-II, Radicals in organic synthesis**	Stability, reactivity and structural and stereochemical properties of free radicals, Persistent and charged radicals, Electrophilic and nucleophilic radicals. Radical Initiators: azobisisobutyronitrile (AIBN) and dibenzoyl peroxide.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg, 5th Edition,	Blackboard and ppt.
	Characteristic reactions - free radical substitution, addition to multiple bonds. Radical chain reactions, radical halogenation of hydrocarbons (regioselectivity),radical cyclizations, autoxidations	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Radicals in synthesis: Inter and intra molecular C-C bond formation via mercuric hydride, tin hydride, thiol donors. Cleavage of C-X, C-Sn, C-Co, C-S, O-O bonds. Oxidative coupling, C-C bond formation in aromatics: SRNAr reactions.	04	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Hunsdiecker reaction, Pinacol coupling, McMurry coupling, Sandmeyer reaction, Acyloin condensation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study enamines, their generation & application in organic synthesis with mechanistic pathways.
Learn phosphorus, sulfur and nitrogen ylides; preparation and their synthetic applications along with their stereochemical aspects.
Study α-C-H functionalization by nitro, sulfoxide, sulfone and phosphonate groups.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-III, Enamines, Ylides and α-C-H functionalization**	Enamines**:** Generation & application in organic synthesis with mechanistic pathways, Stork enamine reaction. Reactivity, comparison between enamines and enolates. Synthetic reactions of enamines including asymmetric reactions of chiral enamines derived from chiral secondary amines.	04	Name Reactions and Reagents in Organic Synthesis, 2nd Edn., Bradford P. Mundy, Michael G. Ellard,	Blackboard and ppt.
	Phosphorus, Sulfur and Nitrogen Ylides: Preparation and their synthetic applications along with their stereochemical aspects.	03	Organic Chemistry, Clayden Greeves	Blackboard and ppt.

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			Warren and Wothers,	
	Wittig reaction, Horner-Wadsworth-Emmons Reaction, Barton-Kellogg olefination.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	α-C-H functionalization: By nitro, sulfoxide, sulfone and phosphonate groups: generation of carbanions by strong bases (LDA/n-butyl lithium) and applications in C-C bond formation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Bamford-Stevens reaction, Julia olefination and its modification, Seyferth–Gilbert homologation, Steven's Rearrangement.	02	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand importance of organosilicons, organoboron and organotin compounds in organic synthesis.
Study application of mercury, selenium in organic synthesis.
Study application of silyl enol ethers in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-IV, Metals / Non-metals in organic synthesis**	Mercury in organic synthesis: Mechanism and regiochemistry of oxymercuration and demercuration of alkenes, mercuration of aromatics, transformation of aryl mercurials to aryl halides. Organomercurials as carbene transfer reagents.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Organoboron compounds: Mechanism and regiochemistry of hydroboration of alkenes and alkynes, asymmetric hydroboration using chiral boron reagents, 9-BBN hydroboration, oxazaborolidine (CBS catalyst) and functional group reduction by diborane.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Organosilicons: Salient features of silicon governing the reactivity of organosilicons, preparation and important bond-forming reactions of alkyl silanes, alkenyl silanes, aryl silanes and allyl silanes. β-silyl cations as intermediates. Iodotrimethylsilane in organic synthesis.	03	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,.	Blackboard and ppt.

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	Silyl enol ethers: Application: As nucleophiles (Michael reaction, Mukaiyama aldol reaction), in ring contraction reactions.	02	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz,	Blackboard and ppt.
	Organotin compounds: Preparation of alkenyl and allyl tin compounds; application in C-C bond formation, in replacement of halogen by H at the same C atom. Selenium in organic synthesis: Preparation of selenols/selenoxide, selenoxide elimination to create unsaturation, selenoxide and seleno acetals as α-C-H activating groups	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand primary and secondary metabolites and the building blocks.
Study Acetate pathway: Biosynthesis of malonylCoA.
Study Shikimic Acid pathway and mevalonate pathway.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-IV, Medicinal , Biogenesis and green chemistry **UNIT-III, Biogenesis and biosynthesis of natural products**	Primary and secondary metabolites and the building blocks, general pathway of amino acid biosynthesis.	03	Natural product chemistry, A mechanistic, biosynthetic and ecological approach, Kurt B. G. Torssell, Apotekarsocieteten – Swedish pharmaceutical press.	Blackboard and ppt.
	Acetate pathway: Biosynthesis of malonylCoA, saturated fatty acids, prostaglandins from arachidonic acid, aromatic polyketides.	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Shikimic Acid pathway: Biosynthesis of shikimic acid, aromatic amino acids, cinnamic acid and its derivatives, lignin and lignans, benzoic acid and its derivatives, flavonoids and isofalvonoids.	04	Natural products Chemistry and applications, Sujata V Bhat, B.A. Nagasampagi and S. Meenakshi, Narosa Publishing House.,.	Blackboard and ppt.
	Mevalonate pathway: Biosynthesis of mevalonic acid, monoterpenes – geranyl cation and its derivatives, sesquiterpenes – farnesyl cation and its derivatives and diterpenes.	04	Natural Product Chemistry Vol.1 and 2, K. Nakanishi J. Goto. S.Ito Majori and S. Nozoo, Academic Press, 1974	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec-22 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study polymers, their classification, stereochemistry and applications.
Understand concept of biodegradable polymers
Learn catalysts and reagents with respect to functional group transformations and selectivity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Polymer, Catalysts and Reagents**	Terms; monomer, polymer, homopolymer, copolymer, thermo plastics and thermosets. Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, Uses. Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins.Uses	03	Textbook, Himalaya publication	Blackboard and ppt.
	Stereochemistry of polymers: Tacticity, mechanism of stereochemical control of polymerization using Ziegler Natta catalysts. Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 and 1,4 addition (cis and trans), Styrene butadiene copolymer. Additives to polymers: Plasticisers, stabilizers and fillers.	03	Polymer science – a text book by Ahluwalia and Mishra	Blackboard and ppt.

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	Biodegradable polymers: Classification and uses. polylactic acid structure, properties and use for packaging and medical purposes.,	02	Textbook, Himalaya publication	Blackboard and ppt.
	Catalysts for hydrogenation: a. Raney Nickel b. Pt and PtO_2 (C=C, CN, NO_2, aromatic ring) c. Pd/C : C=C, COCl→CHO (Rosenmund) d. Lindlar catalyst: alkynes,	04	Oranic chemistry by Carey and Sundberg, Part A & B	Blackboard and ppt.
	Reagents**:** a. $LiAlH_4$ (reduction of CO, COOR, CN,NO_2) b. $NaBH_4$ (reduction of CO) c. SeO_2 (Oxidation of CH_2 alpha to CO) d. mCPBA (epoxidation of C=C) e. NBS (allylic and benzylic bromination)	03	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: /January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study principles of physical organic chemistry and structural effects and reactivity.
Study linear free energy relationship (LFER) in determination of organic reaction mechanism.
Learn uses of Hammett equation.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, Theoretical organic chemistry-II **UNIT-I, Physical organic chemistry**	Asymmetric synthesis: Principles of asymmetric synthesis: Introduction, the chiral pool in Nature, methods of asymmetric induction – substrate, reagent and catalyst controlled reactions.	03	Organic Chemistry, J. Clayden, S. Warren, N. Greeves, P. Wothers, 1st Edition, Oxford University Press (2001).	Chalk/ marker pen and board
	Synthesis of L-DOPA [Knowles's Mosanto process]. Asymmetric reactions with mechanism: Aldol and related reactions, Cram's rule, Felkin-Anh model,	04	A guide to mechanism in Organic Chemistry, 6th edition, 2009, Peter Sykes,	Chalk/ marker pen and board
	Sharpless enantioselective epoxidation, hydroxylation, aminohydroxylation, Diels-Alder reaction, reduction of prochiral carbonyl compounds and olefins.	05	Advanced Organic Chemistry: Reaction Mechanisms, R. Bruckner, Academic Press	Chalk/ marker pen and board
	Use of chiral auxiliaries in diastereoselective reductions, asymmetric amplification. Use of chiral BINOLs, BINAPs and chiral oxazolines asymmetric transformations.	03	Organic Chemistry, Part A and B, Fifth	Chalk/ marker pen and board.

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			edition,2007, Francis A. Carey and Richard J. Sundberg,	
	Grunwald-Winstein equation, Dimroth's E_T parameter, Solvatochromism Zscale, Spectroscopic Correlations, Thermodynamic Implications.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

UNDERSTAND CONCEPTS OF Electro-organic chemistry IN DETAIL.
Study cathodic reduction and anodic oxidation and its application in organic synthesis with mechanistic pathways.
Learn organocatalysts and Pd catalysed cycloaddition reactions
Study applications of selected methods of organic synthesis like crown ethers, cryptands, micelles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II,	Electrode potential, cell parameters, electrolyte, working electrode, choice of solvents, supporting electrolytes.	02	Advanced Organic Chemistry, Part	Blackboard and ppt.

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Synthetic organic chemistry-II **UNIT-III, Electro-organic chemistry and Selected methods of Organic synthesis**			A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	
	Cathodic reduction: Reduction of alkyl halides, aldehydes, ketones, Nitro compounds, olefins, arenes, electro-dimerization.	02	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Anodic oxidation: Oxidation of alkylbezene, Kolbe reaction, Non-Kolbe oxidation, Shono oxidation..	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Selected Methods of Organic synthesis, Applications of the following in organic synthesis: Crown ethers, cryptands, micelles, cyclodextrins, catenanes. Organocatalysts: Proline, Imidazolidinone. Pd catalysed cycloaddition reactions: Stille reaction, Saeguse-Ito oxidation to enones, Negishi coupling	05	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Use of Sc(OTf), and Yb(OTf) as water tolerant Lewis acid catalyst in aldol condensation, Michael reaction, Diels-Alder reaction, Friedel – Crafts reaction.	03	Chem.Rev. 2002, 102, 2227-2302, Rare Earth Metal Triflates in	Blackboard and ppt.

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			Organic Synthesis, S. Kobayashi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To gain knowledge of basic concepts of organometalic chemistry.
Understand importance of palladium in organic synthesis.
Study application of Ce, Sm, Ni, Co, Fe, Rh, and Cr in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic organic chemistry-II **UNIT-IV,**	Introduction to basic concepts: 18 electron rule, bonding in transition metal complexes, C-H activation, oxidative addition, reductive elimination, migratory insertion.	03	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz, W.H. Freeman and Company, (2007).	Blackboard and ppt.

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Transition and rare earth metals in organic synthesis	Palladium in organic synthesis: π-bonding of Pd with olefins, applications in C-C bond formation, carbonylation, alkene isomerisation, cross-coupling of organometallics and halides.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Heck reaction, Suzuki-Miayura coupling, Sonogashira reaction and Wacker oxidation. Heteroatom coupling for bond formation between aryl/vinyl groups and N, S, or P atoms. Olefin metathesis using Grubb's catalyst.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Application of Ni, Co, Fe, Rh, and Cr carbonyls in organic synthesis.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.
	Application of samarium iodide including reduction of organic halides, aldehydes and ketones, α-functionalised carbonyl and nitro compounds. Application of Ce(IV) in synthesis of heterocyclic quinoxaline derivatives and its role as a de-protecting agent.	02	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: I MONTH: August 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand thermodynamic terms and state functions and path functions.
Study first law of thermodynamics in detail.
Study calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-I Chemical Thermodynamics And Chemical Calculations**	Thermodynamic terms: System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law of thermodynamics	03	Text book Himalaya publication	Black board and ppt
	First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement of first law, enthalpy, relation between heat capacities, sign conventions, calculations of heat (q), work (w), internal energy (U), and enthalpy (H)	03	Atkins P.W. and Paula J.de, Atkin's Physical Chemistry, 10th Ed.	Black board and ppt
	Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules, enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation	04	Text book Himalaya publication	Black board and ppt
	Expressing concentration of solutions: Normality, molality, molarity, formality, mole fractions, weight ratio,	02	Text book	Black board and ppt

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			Himalaya publication	
	volume ratio, weight to volume ratio, ppm, ppb, millimoles, milliequivalents , Numericals.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Introduce classical methods of chemical analysis.
Appreciate the various terms and types of titrimetric analysis.
Ability to select proper titrimetric method
Appreciate the usefulness of the gravimetric method of analysis
Identify a suitable gravimetric method
Perform the required calculations involved in the analysis by titrimetry as well as gravimetry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Titrimetric Methods, Terms involved in Titrimetric methods of analysis. Comparing volumetry and Titrimetry The Conditions suitable for titrimetry Types of titrimetry – Neutralisation (Acidimetry, alkalimetry), Redox, Iodometry, Iodimetry.	02	Text book Himalaya publication	Black board and ppt

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PAPER- Chemistry Paper-III **UNIT-II Classical Methods of Analysis**	Precipitation and Complexometric titrations and indicators used in these titrations, Tools of Titrimetry: Graduated glasswares and Callibration, Standard solutions (Primary and Secondary standards in Titrimetry) and Calculations in Titrimetry.	02	Text book Seth publication	Black board and ppt
	Concept of pH and its importance in Neutralisation Titrations End point and Equivalence point of Neutralisation titrations Determination of End point by using i. Indicators causing colour change ii. Change in potential, (by potentiometry) iii.Change in conductance (by conductometry). Construction of titration curve (on the basis of change in pH)of a titration.	04	Skoog et al. Fundamentals of Analytical chemistry Cengage Learning, Eight Edition, chapter 13, 14 and 15	Black board and ppt
	Types of Gravimetric Methods – Precipitation Gravimetry: i. Steps involved in precipitation gravimetry analysis	02	Text book Seth publication	Black board and ppt
	Conditions for precipitation iii. Completion of precipitation, iv. Role of Digestion, Filtration, Washing, Drying Ignition of precipitate.	02	Text book Himalaya publication	Black board and ppt
	Applications of Gravimetric Analysis: Determination of sulfur in organic compounds; Estimation of Nickel in Cu-Ni alloy using dimethyl glyoxime; Determination of Aluminum by converting it to its oxide.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To describe the reactions of halogenated and oxygenated organic compounds of aliphatic and aromatic hydrocarbons
To predict the reactivity and stereochemistry of halogenated and oxygenated organic compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-III Alkyl And Aryl Halides and Compounds Containing Oxygen - Alcohols, Phenols, Ethers, & Epoxides**	Haloalkanes i. Nucleohilic substitution: SN1, SN2 & SNi, Mechanism and Stereochemistry ii. Factors affecting nucleophilic substitution: Substrate, Solvent, Reagent, Leaving group	02	Text book Himalaya publication	Black board and ppt
	Haloarenes i. Reactivity of aryl halides towards nucleophilic substitution ii. Mechanism of nucleophilic aromatic substitution: Addition-Elimination (SNAr); Elimination-Addition (Benzyne)	03	Text book Seth publication	Black board and ppt
	Alcohols & phenols i. Physical properties: Hydrogen bonding (types); effect of Hbonding on properties (o- & p-nitrophenol); comparison of acidity of alcohols & phenols; acidity of substituted phenols ii. Preparation & of alcohols: industrial preparation (fermentation); hydration of alkenes; hydrolysis of alkyl halides	03	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt
	iii. Reactions of alcohols- with sodium, HX (Lucas test), esterification, Oppenaeur oxidation iv. Preparation of phenol- cumene hydroperoxide method	02	Text book Seth publication	Black board and ppt

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	v. Reactions of phenols: O-alkylation & O-acylation; Schotten-Baumen reaction, Fries rearrangement, Claisen rearrangement			
	Ethers & Epoxides i. Preparation of ethers - Williamson's synthesis ii. Reaction of ethers - cleavage of ethers with HI iii. Preparation of epoxides- peroxyacids (m-CPBA)	02	Text book Himalaya publication	Black board and ppt
	iv. Reactivity & reactions of epoxides- ring opening reactions in acidic (HX, ROH, HCN), basic & neutral conditions (NH3, RMgX & RO-) with reference to regioselectivity	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of complex chemical reactions and their reaction rates.
To learn the role of different phases in solution equilibrium system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-II	Types of Complex Chemical reactions i. Reversible or opposing reactions ii. Consecutive reactions iii. Parallel reactions	03	Text book Himalaya publication	Black board and ppt

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UNIT-I Kinetics and Phase equilibria of solutions	(Derivations not expected) iv. Thermal chain reactions: H and Br reaction. (Kinetic expression not expected).			
	Effect of temperature on the rate of reaction i. Arrhenius equation and its derivation ii. Concept of energy of activation (Ea). (Numerical expected) Theories of reaction rates i. Collision theory of unimolecular reaction(Lindemann's approach) and bimolecular reaction ii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	03	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt
	Phase rule & terms involved b) Liquid –liquid mixtures- classification i. Completely miscible liquids ii. Ideal solutions and Raoult's law iii. Deviations from Raoult's law –non-ideal solutions iv. Vapour pressure: composition and temperature; Composition curves of ideal and non-ideal solutions, Numericals	03	Text book Himalaya publication	Black board and ppt
	Partial miscibility of liquids i. Classification on the basis of Critical solution temperature ii. Effect of impurity on partial miscibility of liquids iii. Partially Miscible Liquids with Upper Critical Solution Temperature (Phenol-Water System) iv. Partially Miscible Liquids with Lower Critical Solution Temperature (Triethylamine-Water System) v. Partially Miscible Liquids with Upper and Lower Critical Solution Temperature (Nicotine-Water System)	03	Text book Himalaya publication	Black board and ppt
	Immiscibility of liquids: Principle of steam distillation (Numerical expected)	03	Text book	Black board and ppt

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	e) Nernst distribution law and its applications i. Solvent extraction – method		Himalaya publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc Part II SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of Multi-step synthesis of natural products.
To learn the role of different Prostaglandins, Lipids, Insect growth regulators and Plant growth regulators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III **UNIT-II Natural products and Spectroscopy**	Multi-step synthesis of natural products: Synthesis of the following natural products with special reference to reagents used, stereochemistry and functional group transformations: [8L] a) Woodward synthesis of Reserpine from benzoquinone b) Corey synthesis of Longifoline from resorcinol c) Gilbert-Stork synthesis of Griseofulvin from phloroglucinol	04	Text book Himalaya publication	Black board and ppt
	d) Corey's Synthesis of Caryophyllene from 2-Cyclohexenone and Isobutylene e) Synthesis of Juvabione from Limonene f) Synthesis of Taxolii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt

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	Prostaglandins: Classification, general structure and biological importance. Structure elucidation of PGE1.	02	Text book Himalaya publication	Black board and ppt
	Lipids: Classification, role of lipids, Fatty acids and glycerol derived from oils and fats. Insect growth regulators: General idea, structures of JH2 and JH3	03	Text book Himalaya publication	Black board and ppt
	Plant growth regulators: Structural features and applications of arylacetic acids, gibberellic acids and triacontanol. Synthesis of triacontanol (synthesis of stearyl magnesium bromide and 12-bromo-1- tetrahydropyranyloxydodecane expected)	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study ideal gas laws, kinetic theory of gases in detail.
Study reversible and irreversible reactions, law of mass action, dynamic equilibria.
Study spontaneity and physical significance of free energy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I UNIT-I Gaseous State, Electrochemistry and Chemical Equilibria and Thermodynamic Parameters	Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's Temperature, Numericals.	04	Text book Himalaya publication	Black board and ppt
	Electrochemistry - Conductance, specific conductance, equivalent conductance, molar conductance, Variation of molar conductance with concentration of strong and weak electrolyte.Reversible electrodes, Electrode potential, standard electrode potential, Galvanic cells, Conventions to represent the galvanic cells, Concept of emf of cell. (Numerical problems expected wherever necessary)	05	Text book Seth publication	Black board and ppt
	Statement of second law of thermodynamics, concepts of entropy and free energy, spontaneity and physical significance of free energy, thermodynamic derivation of equilibrium constant, Numericals.	02	Text book Himalaya publication	Black board and ppt
	relationship between Kc and Kp, Le Chatelier's principle, factors affecting chemical equilibrium, Numericals.	02	Text book Himalaya publication	Black board and ppt
	Thermodynamic derivation of equilibrium constant (Numerical problems expected wherever necessary) Unit II	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study nomenclature, structure and physical properties, acidity of carboxylic acids.
To predict the reactivity, nomenclature, and preparation of aromatic sulphonic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER Chemistry Paper-I **UNIT-III**	Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles.	03	Text book Himalaya publication	Black board and ppt
	Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with $LiAlH_4$, diborane, Hell-Volhard-Zelinsky reaction,Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity.	04	Text book Seth publication	Black board and ppt
	Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. Mechanism of Claisen condensation and Dieckmann condensation.	04	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt

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	Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid,	02	Text book Seth publication	Black board and ppt
	Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation.Reaction with alcohol, phosphorous pentachloride, IPSO substitution.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different Types of catalysis, catalytic activity, specificity and selectivity.
To learn Recapitulation of laws of crystallography and types of crystals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II **UNIT-I Solid State And Catalysis**	laws of crystallography and types of crystals Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice	03	Text book Himalaya publication	Black board and ppt
	Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), X-rays diffraction method of studying crystal lattice structure, structure of NaCl and KCl. Determination of Avogadro's number, Numericals.	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th	Black board and ppt

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			ed., Oxford University, 12 press (2014).	
	Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation	03	Text book Himalaya publication	Black board and ppt
	Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH. Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)	03	Text book Himalaya publication	Black board and ppt
	Effect of particle size and efficiency of nanoparticles as catalyst.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Expected to appreciate the nature of interaction between applied electrical potential and the concentration of the analyte.
The nature of chemical reactions that influence potential of a given cell.
Familiar with the various types of electrodes or half cells.
Appreciate the nature, need and importance of pH.
Expected to know the applications of the various instrumental methods dealt with in this unit.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-III **UNIT-II Instrumental Methods-II**	Instruments based on the electrochemical properties of the analytes Potentiometry: Principle, Role of Reference and indicator electrodes	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation reactions with reference to the titration of a Strong acid against a Strong Base (using quinhydrone electrode, Graphical methods for detection of end points.	02	Text book Seth publication	Black board and ppt
	pHmetry: Principle Types of pH meters.	02	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	Construction Working and Care of Combined Glass electrode Applications in Titrimetry (Strtong acid-Strong Base) biological and environmental analysis	02	Text book Seth publication	Black board and ppt
	Conductometry: Principle , Conductivity cell its construction and care.	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation Titrimetry with respect to i. Strong Acid-Strong Base ii. Strong Acid-Weak Base iii. Strong Base-weak Acid iv. Weak Acid- Weak Base. Advantages & limitations of conductometric titrations.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc part II SEMESTER: IV MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study vitamins, their classification, sources and biological importance.
To study Antibiotics their Classification on the basis of activity. Structure elucidation.
To study naturally occurring insecticides: Sources, structure and biological properties.
To study terpenoids, Occurrence, classification, structure elucidation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III	Vitamins: Classification, sources and biological importance of vitamin B1, B2, B6, folic acid, B12, C, D1, E (α-tocopherol), K1, K2, H (β- biotin). [5L] Synthesis of the following: Vitamin A from β-ionone and bromoester moiety. Vitamin B1 including synthesis of pyrimidine and thiazole moieties Vitamin B2 from 3, 4-dimethylaniline and D(-)ribose	03	Text book Himalaya publication	Black board and ppt
	Vitamin B6 from: 1) ethoxyacetylacetone and cyanoacetamide, 2) ethyl ester of N-formyl-DL-alanine (Harris synthesis) Vitamin E (α-tocopherol) from trimethylquinol and phytyl bromide Vitamin K1 from 2-methyl-1, 4-naphthaquinone and phytol.	02	Text book Seth publication	Black board and ppt

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UNIT-II Natural products-IV	Antibiotics: Classification on the basis of activity. Structure elucidation, spectral data of penicillin-G, cephalosporin-C and chloramphenicol. Synthesis of chloramphenicol (from benzaldehyde and β-nitroethanol)	03	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	penicillin-G and phenoxymethylpenicillin from D-penicillamine and t-butyl phthalimide malonaldehyde (synthesis of D-penicillamine and t-butyl phthalimide malonaldehyde expected).	03	Text book Seth publication	Black board and ppt
	Naturally occurring insecticides: Sources, structure and biological properties of pyrethrums (pyrethrin I), rotenoids (rotenone). Synthesis of pyrethrin I.	02	Text book Himalaya publication	Black board and ppt
	Terpenoids: Occurrence, classification, structure elucidation, stereochemistry, spectral data and synthesis of zingiberene	02		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 UNIT 3- Methods of scientific research and writing scientific papers	Reporting practical and project work Writing literature surveys and reviews	3L	*Practical skills in Chemistry,*2nd Ed.,Prentice Hall, Harlow	Offline mode – Chalk and board method
	Organizing a poster display Giving an oral presentation	3L		
	Writing Scientific Papers: Justification for scientific contributions	3L		
	bibliography, description of methods, conclusions	3L		
	the need for illustration, style, publications of scientific work, writing ethics, avoiding plagiarism.	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 202-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 UNIT 1-	Primary .	1L	Dean J. R., Jones, A. M., Holmes, D.,Reed,R.,Wey e rs, J., & Jones, A	Offline mode – Chalk and board method
	Secondary and Tertiary	2L		
	Journal abbreviations, abstracts, current titles, reviews, monographs, dictionaries, text-books, current contents,	2L		
	Introduction to Chemical Abstracts and Beilstein, Subject Index, Substance Index, Author Index, Formula Index, and other Indices with examples.	3L		
	.Web sources, E-journals, Journal access, TOC alerts, Hot articles, Citation Index, Impact factor, H-index,	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

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The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4	E-consortium, UGC infonet, E-books, Internet discussion groups and communities, Blogs, preprint servers, Search engines, Scirus, Google Scholar, ChemIndustry, Wiki databases, ChemSpider, Science Direct, SciFinder, Scopus	3L	Google.com Youtube	Offline mode – Chalk and board method
	The Internet and World wide web, Internet resources for Chemistry, finding and citing published information.	2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

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MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit II: DATA ANALYSIS	Making and recording Measurements, SI units and their use, Scientific methods and design of experiments.	3L	Google.com Youtube *Quantative Chemical Analysis* 6th Ed	Offline mode – Chalk and board method
	Descriptive statistics, choosing and using statistical tests, Chemometrics, Analysis of Variance (ANOVA),	3L		

	Correlation and regression, curve fitting, fitting of linear equations, simple linear cases, weighted linear case, analysis of residuals,	4L		
	general polynomial fitting, linearizing transformations, exponential function fit, r and its abuse, basic aspects of multiple linear regression analysis.	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY- APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Unit IV: CHEMICAL SAFETY & ETHICAL HANDLING OF CHEMICALS	Safe working procedure and protective environment, protective apparel, emergency procedure, first aid, laboratory ventilation, safe storage and use of hazardous chemicals,	3L	Google.com Youtube Chemical Safety matters – IUPAC IPCS, (1992) Cambridge University Press	Offline mode – Chalk and board method Outer cover of chemicals bottle for symbols study SAFTEY CHART OF Lab
	procedure for working with substances that pose hazards, flammable or explosive hazards, procedures for working with gases at pressures above or below atmospheric pressur, safe storage and disposal of waste chemicals, recovery, recycling	3L 3L		
	reuse of laboratory chemicals, procedure for laboratory disposal of explosives,	3L		
	Identification, verification and segregation of laboratory waste,	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. PART-1 (ANALYTICAL CHEMISTRY) SEMESTER: II

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: The Students will able to understand the different terms involved in Chromatography technique and also principle, instrumentation, working, application of Gas chromatography as well HPLC technique

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV IV Unit-I Chromatogra ph y	1.1 Recapitulation basic concepts in Chromatography	4L	Google.com Youtube Skoog,Holler	Offline mode – Chalk and board method
	1.2 Concept of plate and rate theories in chromatography	2L		

	1.3 Gas Chromatography: Principle, instrumentation, working and Application	6L		
	1.4 High performance liquid chromatography	2L		
	1.4.1 Principle, instrumentation, working and Application	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 19 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: FY BSC PCM SEMESTER: II

MONTH: JANUARY -APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: KTG Theory of gases and Application of free energy with new equation of chemical equilibrium.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 UNIT I.Physical Chemistry	1.1 gaseous State -KTG Theory and relationship between Critical Constant and Van der Waals Constant	6L	Himalaya Publication	Offline mode – Chalk and board method
	1.2 Electrochemistry -I- Different terms used in Conductance and Types of free energy with introduction of entropy	4L		
	1.3 Chemical Equilibrium and Thermodynamics parameters	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: TYBSC SEMESTER: VI

MONTH: JAN-MAy ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn the rearrangement reactions and will be able to know new concepts in Carbohydrates.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 3 UNIT 2 - Molecular Rearrangement & Carbohydrates	2.1 MOLECULAR REARRANGEMENT 2.1.1. Pinacol-Pinacolone Rearrangement 2.1.2. Beckmann Rearrangement	2l	Himalaya publishing house College Organic Chemistry TYBSc	Offline mode - chalk and board method
	2.1.3. Favorski Rearrangement 2.1.4. Michael Addition, Wittig Reaction	2l		
	2.2 CARBOHYDRATES 2.2.1. Introduction, Classification, Reducing and non reducing sugars, D L Notation	1l		
	2.2.2. Structures of Monosaccharides : Fischer Projection Formula & Haworth formula, interconversion, Chair conformation with stereochemistry	2l		
	2.2.3. Stereoisomerism of D glucose 2.2.4.Mutarotation in D glucose	8l		

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	2.2.5. Chain lengthening and chain shortening reactions 2.2.6. Reactions of D glucose 2.2.7.Gylcosides			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSC Part I SEMESTER: II

MONTH: FEB - APRIL ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S: The learners will be able to : Various Name reactions and rearrangement reactions in this unit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 2 Reactions and Rearrangements	2.1. Reactions: Baylis-Hilman reaction, McMurry Coupling, Corey-Fuchs reaction, Nef reaction, Passerini reaction.	3L	Clayden	Offline mode - Chalk and board method
	2.2. Concerted rearrangements: Hofmann, Curtius, Lossen, Schmidt, Wolff, Boulton Katritzky.	3L	Organic Reaction Mechanism V.K.Ahluwali	

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	2.3. Cationic rearrangements: Tiffeneau-Demjanov, Pummerer, Dienone-phenol, Rupe, Wagner-Meerwein.	3L		
	2.4. Anionic rearrangements: Brook, Neber, Von Richter, Wittig, Gabriel–Colman, Payne.	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSc II SEMESTER:IV

MONTH: JAN - MAR ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S:

The learners will be able to : learn the safety precautions and measures what should be taken while working in laboratory during different reasearch field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 4 CHEMICAL SAFETY & ETHICAL HANDLING OF CHEMICALS	Safe working procedure and protective environment, protective apparel, emergency procedure, first aid, laboratory ventilation, safe storage and use of hazardous chemicals, procedure for working with substances that pose hazards, flammable or explosive hazards, procedures for working with gases at pressures above or below atmospheric pressur, safe storage and disposal of waste chemicals, recovery, recycling and reuse of laboratory chemicals, procedure for laboratory disposal of explosives, identification, verification and segregation of laboratory waste, disposal of chemicals in the sanitary sewer system, incineration and transportation of hazardous chemicals.	12 L	Chemical Safety matters – IUPAC-IPCS, (1992) Cambridge University Press. OSU Safety manual 1.01	Online mode - PowerPoint presentation Offline mode - chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSc Part II SEMESTER: IV

MONTH: MAR - MAY ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S:
The learners will be able to : synthesis of different organic molecules by retrosynthesis via disconnection of carbon carbon bonds and strategies for selection of starting material.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II Designing Organic Synthesis-II	2.1 General strategy: choosing a disconnection-simplification, symmetry, high yielding steps, and recognisable starting material.	4L	Organic Synthesis: The Disconnection Approach, Stuart Warren, John Wiley & Sons, 2004	Offline mode - Chalk and Board
	2.2 One group C-C Disconnections: Alcohols (including stereoslectivity), carbonyls (including regioselectivity), Alkene synthesis, use of acetylenes and aliphatic nitro compounds in organic synthesis.	6L		
	2.3 Two group C-C Disconnections: 1,2- 1,3- 1,4- 1,5- and 1,6-difunctionalized compounds, Diels-Alder	5L		

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	reactions, α, β-unsaturated compounds, control in carbonyl condensations, Michael addition and Robinson annelation.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June to September

ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S:

The learners will be able to : Chemistry of inner transition elements with respect to their properties,uses and separation technique like ion exchange and solvent extraction technique.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
USCH 502(paper2) Unit 3	3.1 Introduction:: Position in periodic table and electronic configuration of lanthanides and actinides . 3.2 Chemistry of lanthanides with reference to i) lanthanide contraction ii) Oxidation States iii) ability to form complexesiv) magnetic and spectral properties. 3.3 Occurrence , extraction and separation of lanthanides by i) ion exchange method ii) solvent extraction method , applications of lanthanides	15	Himalaya publication textbook ,Sheth Publication textbook	Chalkboard and duster

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USCHACDD 501 Applied component(Drugs and dyes)) unit 1 and 2	1.1 General Introduction to Drugs 1.1.1 definition of a drug , sources of a drugs 1.1.2 nomenclature of Drugs : generic name,brand name , systematic name. 1.1.3 definition of following terms pharmacon,pharmacology,pharmacophore,half life efficiency,LD50,ED50,GI50,theraputic index. 1.1.4 brief idea of the following terms: receptors,agonists,antagonisyd,drug receptor interaction,drug potency,bioavalibility,drug toxicity,drug addiction,spurious drugs,misbrsnded Drugs,adulterated drugs , pharmacopeia. 1.2 Routes of Drug administration and dosage forms. 1.2.1 Oral and parenteral Routes with advantages and disadvantages 1.2.2Formulations and combination formulation,different dosage forms. 1.3 Pharmacodynamic agents 1.3.1 CNS drugs : Classification based on pharmacological actions :CNS depressant and CNS stimulants,concept of sedation and hypnosis , anaestesia 2.1 Analgesic,antipyretics and Anti -inflammatory drugs. 2.1.1 Analgesics and antipyretics 2.1.2 Anti inflammatory drugs 2.2 Antihistamine drugs. 2.3 Cardiovascular Drugs 2.4 Antidiabetic drugs 2.5 Antiparkinsonism drugs	15 15	Himalaya publication textbook,Sheth Publication textbook	Chalkboard and duster

	2.6 Drugs for respiratory system			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 each

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: M.Sc. SEMESTER: 1 MONTH: August to December

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn chacterisation of coordination compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCH102 (paper 2) unit 4	4.1 Formation,thermal studies,conductivity measurements,electonic,spectral and magnetic measurements,IR,NMRand ESR spectroscopic methods. 4.2 Spectral calculations using Tanabe Sugano diagram,calculations of electronic parameters such as delta,B,C nephelauxatic ratio	15	D.Banerjea,Coordination chemistry. F.A Cotton ,G,Wilkinson , Advanced Inorganic chemistry,6th edition,Wiley	Whiteboard marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. Semester: VI MONTH: Nov To March ACADEMIC YEAR: 2022-2023 The learners will be able to : To learn molecular orbital theory For coordination compounds.p properties of coordination compounds,stability of metal complexes,reactivity of metal complexes and electronic spectra of metal complexes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCH602(PAPER 2) Unit2	2.1 identification of the central metal orbitals and their symmetry suitable for formation of Sigma bonds with ligand orbitals. 2.2construction of LGO. 2.3constrction of Sigma molecular orbitals of ML6 complexes , effect of pi bonding on complexes. 2.4.Electronic spectra. 2.4.1 origin of electronic spectra. 2.4.2types of electronic transition in coordination compounds 2.4.3 selection rules. 2.4.4electronic configuration and electronic micro states. 2.4.5 determination of terms for P2 and d1 configuration	15	Himalaya publication textbook,Sheth publication textbook	Chalkboard and duster

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TOTAL NUMBER OF LECTURES ALLOCAT esED TO THE UNIT: 15
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: November to March 2020 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn about chemotherapeutic agents,nanoparyicles in medicinal chemistry and also Drugs and environmental aspects

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USCHACDD 601(Drugs and dyes) Unit 5 and 6	5.1 Drugs discovery,design and development. 5.1.1Discovery of lead compound 5.1.2medicinal properties of compounds. 5.1.3 Development of Drug. 5.1.4 structure modification to increase potency. 5.1.5computer assisted drug design. 5.2 Drug metabolism. 5.3Chemotherapeutic agents. 5.3.1 antibiotics and antivirals. 5.3.2 Antimalarials. 5.3.3anthelmintics and antifungal agents. 6.1 antiamoebic. Drugs. 6.2 antitubercular and antileprotic Drugs.	15	Himalaya publication textbook and Sheth Publication textbook	Chalkboard and duster

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	6.3anti-neoplastic Drugs 6.4 anti-HIV drugs 6.5Drugs intermediate: synthesis and uses. 6.nano particles in medicinal chemistry. 6.7 drugs and environmental aspects	15		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 each

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: M.Sc. SEMESTER: II MONTH: Jan to April 2020

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn about Organometallic chemistry of transportation metals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCH202(unit2)	2.1Eighteen and sixteen electron rule and electron counting with examples. 2.2preparation and properties of following compounds. A)alkyl and aryl derivatives of Pd and Pt complexes. B) carbenes and carbyenes of Cr,Mo and W. C)alkene derivatives of Pd and Pt. D) alkyne derivatives of Pd and Pt. E)allyl derivatives of Ni. F) sandwich compounds of Fe,Cr and half sandwich compounds of Cr and Mo. 2.3 Structure and bonding on the basis of VBT and MOT of organometallic compounds	15	R.C.Mehrotra and A.singu,Organomettallic chemistry,A unified approach,2nd edition	Chalkboard and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tanvi .A. Raul DEPARTMENT: Chemistry

CLASS: F.Y.B.sc (CBZ-A) SEMESTER: I MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about chemical kinetics and liquid state.

To develop the understanding about order of reactions and different instruments used to measure different properties of liquids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit I Physical Chemistry	**1.1 Chemical Kinetics** Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, integrated rate equation of first and second order reactions (with equal initial concentration of reactants) (Numericals expected) Determination of order of reaction by (a) Integration method (b) Graphical method (c) Ostwald’s isolation method (d) Half time method (Numericals expected) **1.2 Liquid State** Surface tension: Introduction, methods of determination of surface tension by drop number method	8 7	Himalaya Publication F.Y.B.sc, Physical chemistry Textbook	Black board and chalk

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	(Numericals expected) Viscosity: Introduction, coefficient of viscosity, relative viscosity, specific viscosity, reduced viscosity, determination of viscosity by Ostwald viscometer (Numericals expected) Refractive index: Introduction, molar refraction and polarizability, determination of refractive index by Abbe’s refractometer (Numerical s expected) Liquid crystals: Introduction, classification and structure of thermotropic phases (Nematic, smectic and cholesteric phases), applications of liquid crystals :			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.sc (CBZ-A) SEMESTER: II MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop knowledge about Ionic Equilibria, Solid state and Molecular spectroscopy.

To develop understanding about different types of electrolytes and electromagnetic waves.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit I Physical Chemistry	**1.1 Ionic Equilibria** Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water, ionization of weak acids and bases, pH scale, common ion effect, dissociation constants of mono di and triprotic acid (exact treatment for monoprotic acid) Buffers: Introduction, types of buffers, derivation of Henderson equation for acidic and basic buffers, buffer action, buffer capacity (Numericals expected) **1.2 Photochemistry** Laws of photochemistry, Quantum yield or efficiency, experimental determination of quantum yield, reasons for	7 4	Himalaya Publication F.Y.B.sc, Physical chemistry Textbook	Black board and chalk

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	low and high quantum yield, primary and secondary processes. Photochemical reactions (with suitable examples), Photosensitizers and photosensitized reactions, fluorescence, phosphorescence and chemiluminescence**. 1.3 Molecular Spectroscopy** Electromagnetic radiation, electromagnetic spectrum, Planck’s equation, interaction of electromagnetic radiation with matter: Absorption, emission, scattering, flourescence, electronic, vibrational and rotational transitions Beer Lambert’s law (Numericals expected)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc (CBZ-B & BIOCHEM) SEMESTER: I MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge about comparative chemistry of main group elements.

To develop understanding about comparative chemistry of main group elements.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper-II Unit II Chemistry II U	**2.0 Comparative chemistry of Main Group Elements** Metallic and non-metallic nature, oxidation states, electronegativity, anomalous behaviour of second period elements, allotropy, catenation, diagonal relationship. Comparative chemistry of oxides and hydroxides of group I and group II elements. Some important compounds-$NaHCO_3$, Na_2CO_3, CaO, $CaCO_3$; oxides of carbon, oxides of sulphur and nitrogen with respect to environmental aspects like green house effect, photochemical smog and acid rain.	15	Himalaya Publication F.Y.B.sc, Inorganic chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.sc (CBZ-B & BIOCHEM) SEMESTER: II MONTH: JANUARY TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about chemical bond and oxidation reduction chemistry.

To develop understanding about chemical bond and oxidation reduction chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit II Inorganic Chemistry	**2.1:Chemical Bond and Reactivity** Types of chemical bond, comparison between ionic and covalent bonds, polarizability(Fajan's Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB_n type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory. **2.2 Oxidation Reduction Chemistry** a)Reduction potentials b)Redox potentials: half reactions; balancing redox equations. c)Applications of redox chemistry i)Redox reagents in Volumetric analysis: a) I2 b) KMnO4 iii)Titration curves:i) single electron systems (example Ce(IV) against Fe(II)); and ii) Multi electron systems as in KMnO4 against Fe(II))	10 5	Himalaya Publication F.Y.B.sc, Inorganic chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

AME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.sc (PC-CZ) SEMESTER: III MONTH: JULY TO NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge about chemical kinetics and solutions.

To develop understanding about different theories based on chemical kinetics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Physical Chemistry I	**1.1 Chemical Kinetics- II** 1.1.1 Types of complex chemical reactions: Reversible or consecutive and parallel reactions. 1.1.2 Effect of temperature on rate of reaction , Arrhenius equations. 1.1.3 Theories of reaction rate : Collision theory, complex theory of biomolecular reactions etc. **1.2 Solutions** 1.2.1 thermodynamics of ideal solutions: Ideal solution and Raoul's law, deviations from Raoul's law- Non ideal solutions, vapour pressure composition and temperature, Lever rule etc.	7 8	Himalaya publication S.Y.B.sc, Physical chemistry textbook	Black board and chalk

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	1.2.2 Partial miscibility of liquids: Critical solution temperature, effect of impurity on partial miscibility of liquids with respect to Phenol-water, Triethannolamine - water and nicotine - water systems. 1.2.3 Immiscibility of liquids Principle of steam distillation, Nernst distribution law and its applications.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.sc (PC-CZ) SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge of solid state and catalysis.

To develop the understanding about state and catalysis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Paper II Physical Chemistry I	**1.1 Solid state** 1.1.1 Recapitulation of laws of crystallography and types of crystals. 1.1.2 Characteristics of simple cubic, face centered cubic and body centered cubic systems. 1.1.3 Use of X-ray in study of crystal structure, bragg's equation. **1.2 Catalysis** 1.2.1 types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation. 1.2.2 Mechanisms and kinetics and acid base catalyzed reaction. 1.2.3 Mechanisms and kinetics of enzyme catalyzed reaction. 1.2.4 Effect of particle size and efficiency of nano particles as catalyst.	7 8	Himalaya Publication S.Y.B.sc, Physical chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: III MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge of body fluids.

To develop understanding about analysis of different body fluids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Paper III Unit I Bioanalytical chemistry and food analysis	**Bioanalytical chemistry** **1.1Body Fluids** 1.1.1 Composition of body fluids and detection of abnormal levels of glucose, creatinine, uric acid in blood, protein, ketone bodies and bilirubin in urine leading to diagnosis of diseases. 1.1.2 Physiological and nutritional significance of vitamins (water soluble and fat soluble) and minerals. 1.1.3 Analytical techniques (including microbiological techniques) for vitamins.	5 5 5	General, organic and biological chemistry, H. Stephen Stoker, Cengage Learning.	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: III MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about cosmetics.

To develop understanding about different elements present in cosmetics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Paper IV Unit IV Pharmaceutical and Organic Analysis	**Cosmetic Analysis** **4.1 Cosmetics** Introduction. Evaluation of cosmetic materials, raw materials and additives. Formulation, standards and methods of analysis. **4.2 Deodorants and antiperspirant** Al, Zn, Boric acid, chlorides, sulphates, hexachlorophene, methanamine, phenolsulphonates and urea. **4.3 Face powder** Fats, fatty acids, boric acid, barium sulphate, Ca, Mg, Ti, Fe, oxides of Ti, Fe and Al. **4.4 Hair tonic** 2,5-diaminotoluene, potassium borates, sodium perborate, pyrogallol, resorcinol, salicylic acid, dithioglycollic acid (inpermanent wavers).	2 3 3 3	Google	Black board and chalk

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	4.5 Creams and Lotions Types of emulsions, chloroform soluble materials, glycerol, pH emulsion, ash analysis, nonvolatile matter (IR spectroscopy) . **4.6 Lipsticks** General analysis, determination of -nonvolatile matter, lakes and fillers, trichloroethylene-acetone soluble contents.	2 2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

Develop knowledge of hyphenated techniques.

To develop understanding of hyphenated techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit IV	**Hyphenated Techniques** 4.1 concept of hyphenation, need for hyphenation, possible hyphenations. 4.2 Interfacing devices and applications of GC – MS, ICP - MS, GC -IR, Tandem Mass Spectrometry, LC – MS: HPLC-MS, CE-MS.	2 13	Principles of Instrumental Analysis, D. A. Skoog, F. J. Holler and J.A. Niemann 5 th Ed.	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge of effluent treatment.

To develop understanding about different steps involved in effluent treatment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper III Unit I	**Effluent Treatment** 1.1 Effluent treatment plant general construction and process flow charts. 1.2Treatment and disposal of Sewage. 1.3. Effluent parameters for metallurgical industry. 1.4Permissible limits for metal (example Cr, As, Pb, Cd etc) traces in the effluent. 1.5 Recovery of metals from effluent, modern methods – Electrodialysis,Electrodeposition and Ion Exchange etc.	3 3 2 2 3	Water and water pollution (hand book) Ed., Seonard'I Ciacere, Vol I to IV, Marcel Dekker inc. N.Y.(1972)	Black board and chalk

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	1.6Recycle and reuse of process and treated (effluent) water.	2		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: I MONTH: August 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand thermodynamic terms and state functions and path functions.
Study first law of thermodynamics in detail.
Study calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-I Chemical Thermodynamics And Chemical Calculations**	Thermodynamic terms: System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law of thermodynamics	03	Text book Himalaya publication	Black board and ppt
	First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement of first law, enthalpy, relation between heat capacities, sign conventions, calculations of heat (q), work (w), internal energy (U), and enthalpy (H)	03	Atkins P.W. and Paula J.de, Atkin's Physical Chemistry, 10th Ed.	Black board and ppt
	Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules, enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation	04	Text book Himalaya publication	Black board and ppt
	Expressing concentration of solutions: Normality, molality, molarity, formality, mole fractions, weight ratio,	02	Text book	Black board and ppt

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			Himalaya publication	
	volume ratio, weight to volume ratio, ppm, ppb, millimoles, milliequivalents , Numericals.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Introduce classical methods of chemical analysis.
Appreciate the various terms and types of titrimetric analysis.
Ability to select proper titrimetric method
Appreciate the usefulness of the gravimetric method of analysis
Identify a suitable gravimetric method
Perform the required calculations involved in the analysis by titrimetry as well as gravimetry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Titrimetric Methods, Terms involved in Titrimetric methods of analysis. Comparing volumetry and Titrimetry The Conditions suitable for titrimetry Types of titrimetry – Neutralisation (Acidimetry, alkalimetry), Redox, Iodometry, Iodimetry.	02	Text book Himalaya publication	Black board and ppt

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PAPER-Chemistry Paper-III **UNIT-II Classical Methods of Analysis**	Precipitation and Complexometric titrations and indicators used in these titrations, Tools of Titrimetry: Graduated glasswares and Callibration, Standard solutions (Primary and Secondary standards in Titrimetry) and Calculations in Titrimetry.	02	Text book Seth publication	Black board and ppt
	Concept of pH and its importance in Neutralisation Titrations End point and Equivalence point of Neutralisation titrations Determination of End point by using i. Indicators causing colour change ii. Change in potential, (by potentiometry) iii.Change in conductance (by conductometry). Construction of titration curve (on the basis of change in pH)of a titration.	04	Skoog et al. Fundamentals of Analytical chemistry Cengage Learning, Eight Edition, chapter 13, 14 and 15	Black board and ppt
	Types of Gravimetric Methods – Precipitation Gravimetry: i. Steps involved in precipitation gravimetry analysis	02	Text book Seth publication	Black board and ppt
	Conditions for precipitation iii. Completion of precipitation, iv. Role of Digestion, Filtration, Washing, Drying Ignition of precipitate.	02	Text book Himalaya publication	Black board and ppt
	Applications of Gravimetric Analysis: Determination of sulfur in organic compounds; Estimation of Nickel in Cu-Ni alloy using dimethyl glyoxime; Determination of Aluminum by converting it to its oxide.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To describe the reactions of halogenated and oxygenated organic compounds of aliphatic and aromatic hydrocarbons
To predict the reactivity and stereochemistry of halogenated and oxygenated organic compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-III Alkyl And Aryl Halides and Compounds Containing Oxygen - Alcohols, Phenols, Ethers, & Epoxides**	Haloalkanes i. Nucleohilic substitution: SN1, SN2 & SNi, Mechanism and Stereochemistry ii. Factors affecting nucleophilic substitution: Substrate, Solvent, Reagent, Leaving group	02	Text book Himalaya publication	Black board and ppt
	Haloarenes i. Reactivity of aryl halides towards nucleophilic substitution ii. Mechanism of nucleophilic aromatic substitution: Addition-Elimination (SNAr); Elimination-Addition (Benzyne)	03	Text book Seth publication	Black board and ppt
	Alcohols & phenols i. Physical properties: Hydrogen bonding (types); effect of Hbonding on properties (o- & p-nitrophenol); comparison of acidity of alcohols & phenols; acidity of substituted phenols ii. Preparation & of alcohols: industrial preparation (fermentation); hydration of alkenes; hydrolysis of alkyl halides	03	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt
	iii. Reactions of alcohols- with sodium, HX (Lucas test), esterification, Oppenaeur oxidation iv. Preparation of phenol- cumene hydroperoxide method	02	Text book Seth publication	Black board and ppt

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	v. Reactions of phenols: O-alkylation & O-acylation; Schotten-Baumen reaction, Fries rearrangement, Claisen rearrangement			
	Ethers & Epoxides i. Preparation of ethers - Williamson's synthesis ii. Reaction of ethers - cleavage of ethers with HI iii. Preparation of epoxides- peroxyacids (m-CPBA)	02	Text book Himalaya publication	Black board and ppt
	iv. Reactivity & reactions of epoxides- ring opening reactions in acidic (HX, ROH, HCN), basic & neutral conditions (NH3, RMgX & RO-) with reference to regioselectivity	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of complex chemical reactions and their reaction rates.
To learn the role of different phases in solution equilibrium system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-II	Types of Complex Chemical reactions i. Reversible or opposing reactions ii. Consecutive reactions iii. Parallel reactions	03	Text book Himalaya publication	Black board and ppt

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UNIT-I Kinetics and Phase equilibria of solutions	(Derivations not expected) iv. Thermal chain reactions: H and Br reaction. (Kinetic expression not expected).			
	Effect of temperature on the rate of reaction i. Arrhenius equation and its derivation ii. Concept of energy of activation (Ea). (Numerical expected) Theories of reaction rates i. Collision theory of unimolecular reaction(Lindemann's approach) and bimolecular reaction ii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	03	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt
	Phase rule & terms involved b) Liquid –liquid mixtures- classification i. Completely miscible liquids ii. Ideal solutions and Raoult's law iii. Deviations from Raoult's law –non-ideal solutions iv. Vapour pressure: composition and temperature; Composition curves of ideal and non-ideal solutions, Numericals	03	Text book Himalaya publication	Black board and ppt
	Partial miscibility of liquids i. Classification on the basis of Critical solution temperature ii. Effect of impurity on partial miscibility of liquids iii. Partially Miscible Liquids with Upper Critical Solution Temperature (Phenol-Water System) iv. Partially Miscible Liquids with Lower Critical Solution Temperature (Triethylamine-Water System) v. Partially Miscible Liquids with Upper and Lower Critical Solution Temperature (Nicotine-Water System)	03	Text book Himalaya publication	Black board and ppt
	Immiscibility of liquids: Principle of steam distillation (Numerical expected)	03	Text book	Black board and ppt

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	e) Nernst distribution law and its applications i. Solvent extraction – method		Himalaya publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc Part II SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of Multi-step synthesis of natural products.
To learn the role of different Prostaglandins, Lipids, Insect growth regulators and Plant growth regulators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-III **UNIT-II Natural products and Spectroscopy**	Multi-step synthesis of natural products: Synthesis of the following natural products with special reference to reagents used, stereochemistry and functional group transformations: [8L] a) Woodward synthesis of Reserpine from benzoquinone b) Corey synthesis of Longifoline from resorcinol c) Gilbert-Stork synthesis of Griseofulvin from phloroglucinol	04	Text book Himalaya publication	Black board and ppt
	d) Corey's Synthesis of Caryophyllene from 2-Cyclohexenone and Isobutylene e) Synthesis of Juvabione from Limonene f) Synthesis of Taxolii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt

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	Prostaglandins: Classification, general structure and biological importance. Structure elucidation of PGE1.	02	Text book Himalaya publication	Black board and ppt
	Lipids: Classification, role of lipids, Fatty acids and glycerol derived from oils and fats. Insect growth regulators: General idea, structures of JH2 and JH3	03	Text book Himalaya publication	Black board and ppt
	Plant growth regulators: Structural features and applications of arylacetic acids, gibberellic acids and triacontanol. Synthesis of triacontanol (synthesis of stearyl magnesium bromide and 12-bromo-1- tetrahydropyranyloxydodecane expected)	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study ideal gas laws, kinetic theory of gases in detail.
Study reversible and irreversible reactions, law of mass action, dynamic equilibria.
Study spontaneity and physical significance of free energy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I UNIT-I Gaseous State, Electrochemistry and Chemical Equilibria and Thermodynamic Parameters	Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's Temperature, Numericals.	04	Text book Himalaya publication	Black board and ppt
	Electrochemistry - Conductance, specific conductance, equivalent conductance, molar conductance, Variation of molar conductance with concentration of strong and weak electrolyte.Reversible electrodes, Electrode potential, standard electrode potential, Galvanic cells, Conventions to represent the galvanic cells, Concept of emf of cell. (Numerical problems expected wherever necessary)	05	Text book Seth publication	Black board and ppt
	Statement of second law of thermodynamics, concepts of entropy and free energy, spontaneity and physical significance of free energy, thermodynamic derivation of equilibrium constant, Numericals.	02	Text book Himalaya publication	Black board and ppt
	relationship between Kc and Kp, Le Chatelier's principle, factors affecting chemical equilibrium, Numericals.	02	Text book Himalaya publication	Black board and ppt
	Thermodynamic derivation of equilibrium constant (Numerical problems expected wherever necessary) Unit II	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study nomenclature, structure and physical properties, acidity of carboxylic acids.
To predict the reactivity, nomenclature, and preparation of aromatic sulphonic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER Chemistry Paper-I **UNIT-III**	Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles.	03	Text book Himalaya publication	Black board and ppt
	Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with $LiAlH_4$, diborane, Hell-Volhard-Zelinsky reaction,Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity.	04	Text book Seth publication	Black board and ppt
	Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. Mechanism of Claisen condensation and Dieckmann condensation.	04	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt

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	Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid,	02	Text book Seth publication	Black board and ppt
	Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation.Reaction with alcohol, phosphorous pentachloride, IPSO substitution.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different Types of catalysis, catalytic activity, specificity and selectivity.
To learn Recapitulation of laws of crystallography and types of crystals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II **UNIT-I Solid State And Catalysis**	laws of crystallography and types of crystals Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice	03	Text book Himalaya publication	Black board and ppt
	Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), X-rays diffraction method of studying crystal lattice structure, structure of NaCl and KCl. Determination of Avogadro's number, Numericals.	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th	Black board and ppt

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			ed., Oxford University, 12 press (2014).	
	Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation	03	Text book Himalaya publication	Black board and ppt
	Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH. Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)	03	Text book Himalaya publication	Black board and ppt
	Effect of particle size and efficiency of nanoparticles as catalyst.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Expected to appreciate the nature of interaction between applied electrical potential and the concentration of the analyte.
The nature of chemical reactions that influence potential of a given cell.
Familiar with the various types of electrodes or half cells.
Appreciate the nature, need and importance of pH.
Expected to know the applications of the various instrumental methods dealt with in this unit.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-III **UNIT-II Instrumental Methods-II**	Instruments based on the electrochemical properties of the analytes Potentiometry: Principle, Role of Reference and indicator electrodes	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation reactions with reference to the titration of a Strong acid against a Strong Base (using quinhydrone electrode, Graphical methods for detection of end points.	02	Text book Seth publication	Black board and ppt
	pHmetry: Principle Types of pH meters.	02	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	Construction Working and Care of Combined Glass electrode Applications in Titrimetry (Strtong acid-Strong Base) biological and environmental analysis	02	Text book Seth publication	Black board and ppt
	Conductometry: Principle , Conductivity cell its construction and care.	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation Titrimetry with respect to i. Strong Acid-Strong Base ii. Strong Acid-Weak Base iii. Strong Base-weak Acid iv. Weak Acid- Weak Base. Advantages & limitations of conductometric titrations.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc part II SEMESTER: IV MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study vitamins, their classification, sources and biological importance.
To study Antibiotics their Classification on the basis of activity. Structure elucidation.
To study naturally occurring insecticides: Sources, structure and biological properties.
To study terpenoids, Occurrence, classification, structure elucidation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III	Vitamins: Classification, sources and biological importance of vitamin B1, B2, B6, folic acid, B12, C, D1, E (α-tocopherol), K1, K2, H (β- biotin). [5L] Synthesis of the following: Vitamin A from β-ionone and bromoester moiety. Vitamin B1 including synthesis of pyrimidine and thiazole moieties Vitamin B2 from 3, 4-dimethylaniline and D(-)ribose	03	Text book Himalaya publication	Black board and ppt
	Vitamin B6 from: 1) ethoxyacetylacetone and cyanoacetamide, 2) ethyl ester of N-formyl-DL-alanine (Harris synthesis) Vitamin E (α-tocopherol) from trimethylquinol and phytyl bromide Vitamin K1 from 2-methyl-1, 4-naphthaquinone and phytol.	02	Text book Seth publication	Black board and ppt

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UNIT-II Natural products-IV	Antibiotics: Classification on the basis of activity. Structure elucidation, spectral data of penicillin-G, cephalosporin-C and chloramphenicol. Synthesis of chloramphenicol (from benzaldehyde and β-nitroethanol)	03	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	penicillin-G and phenoxymethylpenicillin from D-penicillamine and t-butyl phthalimide malonaldehyde (synthesis of D-penicillamine and t-butyl phthalimide malonaldehyde expected).	03	Text book Seth publication	Black board and ppt
	Naturally occurring insecticides: Sources, structure and biological properties of pyrethrums (pyrethrin I), rotenoids (rotenone). Synthesis of pyrethrin I.	02	Text book Himalaya publication	Black board and ppt
	Terpenoids: Occurrence, classification, structure elucidation, stereochemistry, spectral data and synthesis of zingiberene	02		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF GPyadhay.

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand UV – Visible spectroscopy, its basic theory and applications.
Study mass spectrometry, determination of molecular formula and its applications.
Learn natural products like terpenoids, alkaloids in detail.
To gain knowledge of hormones like adrenaline.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Spectroscopy-I And Natural Products**	Electromagnetic spectrum, units of wavelength and frequency, UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome.	02	Introduction to spectroscopy (third edition), Pavia	Blackboard and ppt.
	Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula	03	Spectral identification of organic molecules by Silverstein.	Blackboard and ppt.
	Natural products: terpenoids, their introduction, isoprene rule, special isoprene rule, structural determination of citral,	04	Textbook, Himalaya publication	Blackboard and ppt.

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	Alkaloids introduction and occurrence, structural determination of nicotine,	04	Textbook, Himalaya publication	Blackboard and ppt.
	Hormones: Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.	02	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt. .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study role of radicals in organic synthesis and their applications in detail.
Learn generation, stability, reactivity and structural and stereochemical properties of free radicals,.
Study characteristic reactions and applications of radicals in synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-II, Synthetic Organic Chemistry-I **UNIT-II, Radicals in organic synthesis**	Stability, reactivity and structural and stereochemical properties of free radicals, Persistent and charged radicals, Electrophilic and nucleophilic radicals. Radical Initiators: azobisisobutyronitrile (AIBN) and dibenzoyl peroxide.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg, 5th Edition,	Blackboard and ppt.
	Characteristic reactions - free radical substitution, addition to multiple bonds. Radical chain reactions, radical halogenation of hydrocarbons (regioselectivity),radical cyclizations, autoxidations	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Radicals in synthesis: Inter and intra molecular C-C bond formation via mercuric hydride, tin hydride, thiol donors. Cleavage of C-X, C-Sn, C-Co, C-S, O-O bonds. Oxidative coupling, C-C bond formation in aromatics: SRNAr reactions.	04	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Hunsdiecker reaction, Pinacol coupling, McMurry coupling, Sandmeyer reaction, Acyloin condensation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study enamines, their generation & application in organic synthesis with mechanistic pathways.
Learn phosphorus, sulfur and nitrogen ylides; preparation and their synthetic applications along with their stereochemical aspects.
Study α-C-H functionalization by nitro, sulfoxide, sulfone and phosphonate groups.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-III, Enamines, Ylides and α-C-H functionalization**	Enamines**:** Generation & application in organic synthesis with mechanistic pathways, Stork enamine reaction. Reactivity, comparison between enamines and enolates. Synthetic reactions of enamines including asymmetric reactions of chiral enamines derived from chiral secondary amines.	04	Name Reactions and Reagents in Organic Synthesis, 2nd Edn., Bradford P. Mundy, Michael G. Ellard,	Blackboard and ppt.
	Phosphorus, Sulfur and Nitrogen Ylides: Preparation and their synthetic applications along with their stereochemical aspects.	03	Organic Chemistry, Clayden Greeves	Blackboard and ppt.

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			Warren and Wothers,	
	Wittig reaction, Horner-Wadsworth-Emmons Reaction, Barton-Kellogg olefination.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	α-C-H functionalization: By nitro, sulfoxide, sulfone and phosphonate groups: generation of carbanions by strong bases (LDA/n-butyl lithium) and applications in C-C bond formation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Bamford-Stevens reaction, Julia olefination and its modification, Seyferth–Gilbert homologation, Steven's Rearrangement.	02	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand importance of organosilicons, organoboron and organotin compounds in organic synthesis.
Study application of mercury, selenium in organic synthesis.
Study application of silyl enol ethers in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-IV, Metals / Non-metals in organic synthesis**	Mercury in organic synthesis: Mechanism and regiochemistry of oxymercuration and demercuration of alkenes, mercuration of aromatics, transformation of aryl mercurials to aryl halides. Organomercurials as carbene transfer reagents.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Organoboron compounds: Mechanism and regiochemistry of hydroboration of alkenes and alkynes, asymmetric hydroboration using chiral boron reagents, 9-BBN hydroboration, oxazaborolidine (CBS catalyst) and functional group reduction by diborane.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Organosilicons: Salient features of silicon governing the reactivity of organosilicons, preparation and important bond-forming reactions of alkyl silanes, alkenyl silanes, aryl silanes and allyl silanes. β-silyl cations as intermediates. Iodotrimethylsilane in organic synthesis.	03	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,.	Blackboard and ppt.

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	Silyl enol ethers: Application: As nucleophiles (Michael reaction, Mukaiyama aldol reaction), in ring contraction reactions.	02	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz,	Blackboard and ppt.
	Organotin compounds: Preparation of alkenyl and allyl tin compounds; application in C-C bond formation, in replacement of halogen by H at the same C atom. Selenium in organic synthesis: Preparation of selenols/selenoxide, selenoxide elimination to create unsaturation, selenoxide and seleno acetals as α-C-H activating groups	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand primary and secondary metabolites and the building blocks.
Study Acetate pathway: Biosynthesis of malonylCoA.
Study Shikimic Acid pathway and mevalonate pathway.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-IV, Medicinal , Biogenesis and green chemistry **UNIT-III, Biogenesis and biosynthesis of natural products**	Primary and secondary metabolites and the building blocks, general pathway of amino acid biosynthesis.	03	Natural product chemistry, A mechanistic, biosynthetic and ecological approach, Kurt B. G. Torssell, Apotekarsocieteten – Swedish pharmaceutical press.	Blackboard and ppt.
	Acetate pathway: Biosynthesis of malonylCoA, saturated fatty acids, prostaglandins from arachidonic acid, aromatic polyketides.	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Shikimic Acid pathway: Biosynthesis of shikimic acid, aromatic amino acids, cinnamic acid and its derivatives, lignin and lignans, benzoic acid and its derivatives, flavonoids and isofalvonoids.	04	Natural products Chemistry and applications, Sujata V Bhat, B.A. Nagasampagi and S. Meenakshi, Narosa Publishing House.,.	Blackboard and ppt.
	Mevalonate pathway: Biosynthesis of mevalonic acid, monoterpenes – geranyl cation and its derivatives, sesquiterpenes – farnesyl cation and its derivatives and diterpenes.	04	Natural Product Chemistry Vol.1 and 2, K. Nakanishi J. Goto. S.Ito Majori and S. Nozoo, Academic Press, 1974	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec-22 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study polymers, their classification, stereochemistry and applications.
Understand concept of biodegradable polymers
Learn catalysts and reagents with respect to functional group transformations and selectivity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry	Terms; monomer, polymer, homopolymer, copolymer, thermo plastics and thermosets. Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, Uses. Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins.Uses	03	Textbook, Himalaya publication	Blackboard and ppt.
UNIT-IV, Polymer, Catalysts and Reagents	Stereochemistry of polymers: Tacticity, mechanism of stereochemical control of polymerization using Ziegler Natta catalysts. Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 and 1,4 addition (cis and trans), Styrene butadiene copolymer. Additives to polymers: Plasticisers, stabilizers and fillers.	03	Polymer science – a text book by Ahluwalia and Mishra	Blackboard and ppt.

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	Biodegradable polymers: Classification and uses. polylactic acid structure, properties and use for packaging and medical purposes.,	02	Textbook, Himalaya publication	Blackboard and ppt.
	Catalysts for hydrogenation: a. Raney Nickel b. Pt and PtO_2 (C=C, CN, NO_2, aromatic ring) c. Pd/C : C=C, COCl→CHO (Rosenmund) d. Lindlar catalyst: alkynes,	04	Oranic chemistry by Carey and Sundberg, Part A & B	Blackboard and ppt.
	Reagents**:** a. $LiAlH_4$ (reduction of CO, COOR, CN,NO_2) b. $NaBH_4$ (reduction of CO) c. SeO_2 (Oxidation of CH_2 alpha to CO) d. mCPBA (epoxidation of C=C) e. NBS (allylic and benzylic bromination)	03	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: /January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study principles of physical organic chemistry and structural effects and reactivity.
Study linear free energy relationship (LFER) in determination of organic reaction mechanism.
Learn uses of Hammett equation.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, Theoretical organic chemistry-II **UNIT-I, Physical organic chemistry**	Asymmetric synthesis: Principles of asymmetric synthesis: Introduction, the chiral pool in Nature, methods of asymmetric induction – substrate, reagent and catalyst controlled reactions.	03	Organic Chemistry, J. Clayden, S. Warren, N. Greeves, P. Wothers, 1st Edition, Oxford University Press (2001).	Chalk/ marker pen and board
	Synthesis of L-DOPA [Knowles's Mosanto process]. Asymmetric reactions with mechanism: Aldol and related reactions, Cram's rule, Felkin-Anh model,	04	A guide to mechanism in Organic Chemistry, 6th edition, 2009, Peter Sykes,	Chalk/ marker pen and board
	Sharpless enantioselective epoxidation, hydroxylation, aminohydroxylation, Diels-Alder reaction, reduction of prochiral carbonyl compounds and olefins.	05	Advanced Organic Chemistry: Reaction Mechanisms, R. Bruckner, Academic Press	Chalk/ marker pen and board
	Use of chiral auxiliaries in diastereoselective reductions, asymmetric amplification. Use of chiral BINOLs, BINAPs and chiral oxazolines asymmetric transformations.	03	Organic Chemistry, Part A and B, Fifth	Chalk/ marker pen and board.

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			edition,2007, Francis A. Carey and Richard J. Sundberg,	
	Grunwald-Winstein equation, Dimroth's E_T parameter, Solvatochromism Zscale, Spectroscopic Correlations, Thermodynamic Implications.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

UNDERSTAND CONCEPTS OF Electro-organic chemistry IN DETAIL.
Study cathodic reduction and anodic oxidation and its application in organic synthesis with mechanistic pathways.
Learn organocatalysts and Pd catalysed cycloaddition reactions
Study applications of selected methods of organic synthesis like crown ethers, cryptands, micelles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II,	Electrode potential, cell parameters, electrolyte, working electrode, choice of solvents, supporting electrolytes.	02	Advanced Organic Chemistry, Part	Blackboard and ppt.

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Synthetic organic chemistry-II **UNIT-III, Electro-organic chemistry and Selected methods of Organic synthesis**			A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	
	Cathodic reduction: Reduction of alkyl halides, aldehydes, ketones, Nitro compounds, olefins, arenes, electro-dimerization.	02	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Anodic oxidation: Oxidation of alkylbezene, Kolbe reaction, Non-Kolbe oxidation, Shono oxidation..	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Selected Methods of Organic synthesis, Applications of the following in organic synthesis: Crown ethers, cryptands, micelles, cyclodextrins, catenanes. Organocatalysts: Proline, Imidazolidinone. Pd catalysed cycloaddition reactions: Stille reaction, Saeguse-Ito oxidation to enones, Negishi coupling	05	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Use of Sc(OTf), and Yb(OTf) as water tolerant Lewis acid catalyst in aldol condensation, Michael reaction, Diels-Alder reaction, Friedel – Crafts reaction.	03	Chem.Rev. 2002, 102, 2227-2302, Rare Earth Metal Triflates in	Blackboard and ppt.

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			Organic Synthesis, S. Kobayashi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To gain knowledge of basic concepts of organometalic chemistry.
Understand importance of palladium in organic synthesis.
Study application of Ce, Sm, Ni, Co, Fe, Rh, and Cr in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic organic chemistry-II **UNIT-IV,**	Introduction to basic concepts: 18 electron rule, bonding in transition metal complexes, C-H activation, oxidative addition, reductive elimination, migratory insertion.	03	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz, W.H. Freeman and Company, (2007).	Blackboard and ppt.

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Transition and rare earth metals in organic synthesis	Palladium in organic synthesis: π-bonding of Pd with olefins, applications in C-C bond formation, carbonylation, alkene isomerisation, cross-coupling of organometallics and halides.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Heck reaction, Suzuki-Miayura coupling, Sonogashira reaction and Wacker oxidation. Heteroatom coupling for bond formation between aryl/vinyl groups and N, S, or P atoms. Olefin metathesis using Grubb’s catalyst.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Application of Ni, Co, Fe, Rh, and Cr carbonyls in organic synthesis.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.
	Application of samarium iodide including reduction of organic halides, aldehydes and ketones, α-functionalised carbonyl and nitro compounds. Application of Ce(IV) in synthesis of heterocyclic quinoxaline derivatives and its role as a de-protecting agent.	02	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE_______________________________DEPARTMENT: ________CHEMISTRY______CLASS: _TYBSC_________________

SEMESTER: _____Vth MONTH: June 2021

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1. To study redox titration like Construction of the titration curves and calculation of E_{system} in aqueous medium , Theory of redox indicators, Criteria for selection of an indicator in details.

2. To study complexometric titrations in details like construction of titration curve, Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes,Selectivity of EDTA as a titrant,Factors enhancing selectivity with examples,Types of EDTA titrations,Metallochromic indicators, theory, examples and applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 2 **CLASSICAL METHODS OF ANALYSIS (TITRIMETRY) (3 & 6 UNITS)**	***2.1*** **Redox Titrations (Numerical and word Problems are expected)** *2.1.1* Introduction 2.1.2 Construction of the titration curves and calculation of E_{system}	08L	Saujanya publicationof analytical chemistry,sheth publication,Himalaya publication textbook,	Online video lecture on Google meet

	in aqueous medium in case of: *(1)* One electron system *(2)* Multielectron system 2.1.3 Theory of redox indicators, Criteria for selection of an indicator Use of diphenyl amine and ferroin as redox indicators			

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	2.2 Complexometric Titrations 2.2.1 Introduction, construction of titration curve 2.2.2 Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes, Selectivity of EDTA as a titrant. Factors enhancing selectivity with examples. Advantages and limitations of EDTA as a titrant. 2.2.3 Types of EDTA titrations.	07L	Same as above	Same as above

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	2.2.4 Metallochromic indicators, theory, examples and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE____________________DEPARTMENT: ____CHEMISTRY__
__CLASS: __TYBSC_________ SEMESTER: _VTH MONTH: June 2021
__ ACADEMIC YEAR: _2022-23
__ LEARNING OBJECTIVE/S:
The learners will be able to :

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1) To study solvent extraction in detail like Factors affecting extraction, Concept of $[pH]_{1/2}$ and its significance, Craig's counter current extraction.

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2)To study HPLC instrumentation, working and applications along with detectors. 3)To study HPTLC instrumentation, working and applications in details.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV UNIT IV **METHODS OF SEPARATION – I (6 UNITS)**	***4.1* Solvent Extraction** *4.1.1* Factors affecting extraction: Chelation, Ion pair formation and Solvation *4.1.2* Graph of percent extraction versus pH. Concept of $[pH]_{1/2}$ and its significance (derivation not expected) 4.1.3 Craig's counter current extraction: Principle, apparatus and applications 4.1.4 Solid phase extraction: Principle, process and applications with	06L	Saujanya publication,sheth publication,Himalaya publication textbook of analytical chemistry,	Online video lecture on Google meet

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	special reference to water and industrial effluent analysis. 4.1.5 Comparison of solid phase extraction and solvent extraction.			

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	4.2 High Performance Liquid chromatography (HPLC) 4.2.1 Introduction and Principle Instrumentation- components with their significance: Solvent Reservoir, Degassing system, Pumps-(reciprocating pumps, screw driven- syringe type pumps, pneumatic pumps, advantages and disadvantages of each pump), Precolumn, Sample injection system, HPLC Columns, Detectors(UV – Visible detector, Refractive index detector) 4.2.2 Qualitative and Quantitative Applications of HPLC	06L	SAME AS ABOVE	SAME AS ABOVE
	4.3 High Performance Thin Layer Chromatography (HPTLC) 4.3.1 Introduction and Principle	03L	SAME AS ABOVE	SAME AS ABOVE

	Stationary phase, Sample application and mobile phase 4.3.2 Detectors *a)* Scanning densitometer- Components. Types of densitometer- Single beam and Double beam *b)* Fluorometric Detector *4.3.3* Advantages, disadvantages and applications *4.3.4* Comparison of TLC and HPTLC			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: _July________________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of QSAR factor and how to relatedto drug design.Also understand the synthesis of some drug.they understand the concept of drug.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV Unit II: Drug Design, Develepment And Synthesis	2.1: QSAR Parameter Steric Factor , Talf Equation	5L	1.Medicinal Chemistry,Sriram &Yogeeswari,2nd edition 2.A Introduction to drug design,Pandeya and Dimmock.	White Board and Markar
	2.2: Mordern method of drug design & synthesis	3L		
	2.3: Concept of prodrug & soft drug	3L		
	2.4: Synthesis and application of the drug	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: __July_______________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the Pericyclic reactions and it's different types.Also understand the Selectivity of cycloaddition reaction and sigmatropic reaction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II: Pericyclic Reaction	2.1: Cycloaddition Reaction & Other Cycloaddition Reaction	7L	1.Pericyclic Reaction, Ian Fleming 2.Pericyclic Reaction- A mechanistic Approach, S. M. Mukharji.	White Board and Markar
	2.2: Cycloaddition Reaction	3L		
	2.3: Sigmatropic Rearrangement	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.JAYASHRI GOPAL NAPHADE___DEPARTMENT: __CHEMISTRY_ CLASS: _M.Sc II (ORGANIC CHEMISTRY) SEMESTER: ___IV____________ MONTH: _____January____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the how the protection of group is necessary in organic synthesis also understand the concept of Umpolung.they also understand the concept of retrosynthetic an d how to plan the retrosynthetic apporoach.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERANCES	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT-I Desiging Organic Synthesis-i	1.1:Protectin group in organic Synthesis	3L	1.Protective groups in Organic synthesis,Greene and Wuts 2.Principle of organic synthesis, R.O.C. Norman & Coxon. 3.Organic Synthesis:The Disconnection Approach,Stuart Warren.	White Board & Marker
	1.2: Concept of Umpolung	3L		
	1.3:Introduction to Retrosynthetic analysis & synthetic planning	9L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE ___DEPARTMENT: __CHEMISTRY_CLASS: _M.Sc.II(ORGANIC CHEMISTRY) SEMESTER: _IV_ MONTH: __January_______________ ACADEMIC YEAR: ___2022-2023___________________

LEARNING OBJECTIVE/S:
The learners will be able to: understand the different sources use in research .some information about journals.They understand different resources used during research.like information technology and library.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT-I RESEARCH METHODOLOGY	1.1: Print: Primary, Secondary,Tertiary sources	5L	Research methodology,C.R.Kothari	Projector
	1.2::Journals	5L		
	1.3:Information Technology & Library Resources	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr. JAYASHRI GOPAL NAPHADE __DEPARTMENT: __CHEMISTRY___

CLASS: ___S.Y.B.Sc (PC-CZ)__ SEMESTER: __III___________ MONTH: ___July______________

ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature ,structure ,preparation and reactions aof aldehyde and ketones.Also understand mechanism of some name reaction.______

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT –III Carbonyl componnd	3.1: Nomencluture,structure,reactivity & method of Preparation of aldehyde & Ketone	6L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION)	Chalk -Board
	3.2: General mechanism of nuclophilic addition	1L		
	3.3: Reactions of aldehyde and ketones	3L		
	3.4: Mechanism of some name Reactions	2L		
	3.5: Keto-enol tautomerisation 3.6: Active Methylene compound	1L 2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: __CHEMISTRY_______CLASS: __ S.Y.B.Sc (PC-CZ)__

________ SEMESTER: ______IV_________ MONTH: __December_______________ ACADEMIC YEAR: _____2022-2023________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature and preparation and reaction of Amines and Diazonium salt.They also understand what is heterocyclic compound it's nomenclature,preparation and reaction of furan.Pyrrole,Thiophene and Pyridine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
PAPER-II UNIT –III Nitrogen Containing compound & Heterocyclic compound	3.1:Amines: Nomencluture , preparation and Reactions	4L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION	Chalk - Board
	3.2: Diazonium Salt: Preparation,reactions & synthetic application	3L		
	3.3:Hetrocyclic compound :3.3.1:classification,nomenclature,structure	8L		
	3.3.2:synthesis of furan,pyrrole,Thiophene,pyridine 3.3.3:Reactivityof furan,pyrrole,Thiophene,pyridine			
	3.3.4:Reactions of furan,pyrrole,Thiophene 3.3.5: Pyridine:Basicity,Reaction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____Dr.JAYASHRI GOPAL NAPHADE ---DEPARTMENT: ___CHEMISTRY_________________________

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CLASS: ____T.Y.B.Sc___ SEMESTER: ____V___ MONTH: __July_______________ ACADEMIC YEAR: _____2022-2023_____

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the concept of Dyestuff ,it's type ,nomenclature and application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-III CHEMISTRY OF DYESTUFF	3.1:Introduction to the Dyestuff Induestries	5L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	3.2: Substrates for Dyes : Types of fibres	3L		
	3.3: classification of Dyes based on Applications and Dyeing methods	7L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: _CHEMISTRY_ CLASS: __T.Y.B.Sc_ SEMESTER:

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_________VI______ MONTH: _December________________ ACADEMIC YEAR: ______2022-2023_______________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the classification of dyes and synthesis of some dyes.Also understand the hards of synthetic dyes on health and environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-VII CHEMISTRY OF DYE STUFF	7.1:Classification of dyes based on chemical constitution & synthesis of selected dyes.	12 L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	7.2: Health and Environmental Hazards of synthetic dyes & their remediation process.	3 L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr Amol Samant DEPARTMENT: Biotechnology CLASS: F.Y.B.Sc. SEMESTER: I

MONTH: Jun-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. Experiments which proved DNA as a transforming element and RNA as a genetic material.

2. DNA repair mechanisms system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT106 **MOLECULAR BIOLOGY I** **UNIT I** **Chromosome structure, composition and packing**	The Composition and structure of DNA and RNA: Nucleotide and Nucleoside, Structure of nucleotides. Structure of DNA. DNA double helix – Watson and Crick's Model. Structure of RNA. Types of RNA. Organization of DNA in chromosome: Viral and Prokaryotic Chromosomes. Eukaryotic Chromosomes. Histone and Non-histone proteins. Nucleosome Structure. Packaging of DNA into chromosomes. Euchromatin and Heterochromatin. Centromeres and Telomeres Chromosome Banding Techniques. Karyotype and Idiogram	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Demo video

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USBT106 **MOLECULAR BIOLOGY I** **UNIT III** **Mutation and repair**	Definition and concept of Mutations: Classification of mutations Types of Point Mutations, Types of Spontaneous and induced mutations Mutagenesis and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens) DNA repair: Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair.	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Animation video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______30___

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T

eaching plan (UNIT PLAN)

NAME OF THE STAFF: _______Kirti Pankaj Mhatre____________________________DEPARTMENT: ____Chemistry______________________CLASS:

____TyBsc.______________ SEMESTER: _VTH MONTH: June-July- Aug

ACADEMIC YEAR: ____2022-2023_______________
LEARNING OBJECTIVE/S:
The learners will be able to :

1.To study quality in analytical chemistry like Concepts of Quality, Quality Control and Quality Assurance.

2.To study the chemical calculations like inter conversion of various concentration units and Percent composition of elements in chemical compounds.

3..To study how to do the sampling of solids and liquid and gases alogwith the Collection, preservation and dissolution of the sample..

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Analytical chemistry *Paper IV* *UNIT I :INTRODUCTION TO QUALITYCONCEPTS,CHEMICAL CALCULATIONS AND SAMPLING*	*1.1 Quality in Analytical Chemistry* *1.1.1 Concepts of Quality, Quality Control and Quality Assurance* *1.1.2 Importance of Quality concepts in Industry* *1.1.3 Chemical Standards and Certified*	*05L*	*Saujanya publication,sheath publication,Himalaya publication textbook of analytical chemistry,*	*chalk and board,powerpoint presentation*
	Reference Materials; Importance *in chemical analysis* *Quality of material: Various grades of laboratory reagents*			

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	1.2 Chemical Calculations (Numericals and word problems are expected) *1.2.1.Inter conversion of various concentration units.* *(Conversion of concentration from one unit to another unit with* *examples)* *1.2.2 Percent composition of elements in chemical compounds*	*04*	*Same as above*	*chalk and board,powerpoint presentation*
	1.3 Sampling *1.3.1 Purpose, significance and difficulties encountered in sampling* *1.3.2 Sampling of solids: Sample size – bulk ratio, size to weight ratio,* *multistage and sequential sampling, size reduction methods,*	*06L*	*Same as above*	*chalk and board,powerpoint presentation*

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	sampling of compact solids, equipments and methods of sampling *of compact solids, sampling of particulate solids, methods and equipments used for sampling of particulate solids.* *1.3.3 Sampling of liquids: Homogeneous and heterogeneous, Static and* *flowing liquids.* *1.3.4 Sampling of gases: Ambient and stack sampling: Apparatus and methods for sampling of gases.* *1.3.5 Collection, preservation and dissolution of the sample.*			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_L____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Kirti Pankaj Mhatre______________________DEPARTMENT: CHEMISTRY_________

CLASS: _Tybsc__________-　　　　SEMESTER: _V^th　　　　MONTH: Aug-Sept-Oct

____

ACADEMIC YEAR: _-2022-2023__________________

LEARNING OBJECTIVE/S:

The learners will be able to :

1. To study AAS like instrumentation, working and applications in detail.

2.To study AES like instrumentation, working and applications in detail.

3.To study Molecular Fluorescence and Phosphorescence Spectroscopy like instrumentation, working and applications in details.

4.To study turbidimetry and nephelometry like instrumentation, working and applications in details.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ANALYTICAL CHEMISTRY PAPER-IV	**3.1Atomic Spectroscopy: Flame Emission spectroscopy(FES) and** **Atomic Absorption Spectroscopy(AAS)**		SAUJNYA PRAKASHAN TEXTBOOK,	chalk and board,powerpoint presentation

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UNIT-3 *OPTICAL* *METHODS(6UNITS)*	*3.1.1 Introduction, Energy level diagrams, Atomic spectra, Absorption* *and Emission Spectra* *3.1.2 Flame Photometry - Principle, Instrumentation (Flame atomizers,*	*07L*	*SHETH PUBLICATION TEXTBOOK,* *HIMALAYA PUBLICATION TEXTBOOK*	
	types of Burners, Wavelength selectors, Detectors) *3.1.3 Atomic Absorption Spectroscopy – Principle, Instrumentation* *(Source, Chopper, Flame and Electrothermal Atomiser)* *3.1.4 Quantification methods of FES and AAS - Calibration curve* *method, Standard addition method and Internal standard method* *3.1.5 Comparison between FES and AAS* *3.1.6 Applications, Advantages and Limitations*			

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	3.2 Molecular Fluorescence and Phosphorescence Spectroscopy *3.2.1 Introduction and Principle* *3.2.2 Relationship of Fluorescence intensity with concentration* *3.2.3 Factors affecting Fluorescence and Phosphorescence* *3.2.4 Instrumentation and applications*	*04L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

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	3.2.5 Comparison of Fluorimetry and Phosphorimetry *3.2.6 Comparison with Absorption methods*			
	3.3 Turbidimetry and Nephelometry *3.3.1 Introduction and Principle* *3.3.2 Factors affecting scattering of Radiation:* *Concentration, particle size, wavelength, refractive index* *3.3.3 Instrumentation and applications*	*04L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE__________________________DEPARTMENT: ________CHEMISTRY___________________CLASS: _FYBSC_________________ SEMESTER: ____I[ST] MONTH: _AUG-SEPT-Oct-Nov____

ACADEMIC YEAR: _2022-2023________________

LEARNING OBJECTIVE/S:

The learners will be able to : _1.To study the thermodynamics concepts like systems,zeroth law,first law calculations of heat (q), work (w), internal energy (U), and enthalpy (H) (Numericals)Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules,enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation(Numericals) in detail.

2.To study chemical calculations with the help of numericals of Normality, molality, molarity, formality, mole

fractions, weight ratio, volume ratio, weight to volume ratio, ppm, ppb, millimoles.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper 1 Unit 1 Chemical	***Thermodynamic terms:*** *System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law*	*10L*	*HIMALAYA PUBLICATIONS TEXTBOOK,* *SHETH*	*chalk and board,powerpoint presentation*

Thermodynamics, ***1.2 Chemical Calculations***	*of thermodynamics* *First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement* *of first law, enthalpy, relation between heat capacities, sign conventions, calculations of* *heat (q), work (w), internal energy (U), and enthalpy (H) (Numericals expected)* *Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules,* *enthalpy of combustion and its applications, calculation of bond energy, bond dissociation* *energy and resonance energy from thermochemical data,* *Kirchhoff's equation*		*PUBLICATIONS TEXTBOOK*	

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	(Numericals expected)			

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	1.2 Chemical Calculations *Expressing concentration of solutions: Normality, molality, molarity, formality, mole* *fractions, weight ratio, volume ratio, weight to volume ratio, ppm, ppb, millimoles,* *milliequivalents (Numericals expected)*	*05L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15L______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Kirti Pankaj Mhatre ________________________DEPARTMENT: ______CHEMISTRY____________________CLASS: ____TYBSC______________ SEMESTER: _VITH MONTH:. Dec-Jan

ACADEMIC YEAR: ___2022-2023______________
LEARNING OBJECTIVE/S:
The learners will be able to :

1.To study the polarography concepts like polarography H shaped polarographic cell, DME (construction, working,advantages and limitations), DC polarogram: Terms involved - Residual current, Diffusion current, Limiting current, Half-Wave Potential Role and selection of supporting electrolyte, Interference of oxygen, Half wave potential $E_{1/2}$,Factors affecting $E_{1/2}$ Ilkovic equations: various terms involved in it (No derivation)along with numericals.

2.To study Principle, Rotating Platinum Electrode(Construction, advantages and limitations)Titration curves with example, Advantages and limitations of amperometric titrations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV *UNIT-1* ***ELECTRO ANALYTICAL TECHNIQUES(3 & 6 UNITS)***	***1.1 Polarography (Numerical and word problems are expected)*** *1.1.1 Difference between potentiometry and voltammetry,* *Polarizable and* *non-polarizable electrodes* *1.1.2 Basic principle of polarography*	*11L*	*SAUJNYA PRAKASHAN TEXTBOOK,* *SHETH PUBLICATION TEXTBOOK,* *HIMALAYA*	*chalk and board,powerpoint presentation*

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	H shaped polarographic cell, DME (construction, *working, advantages and limitations)* *1.1.3 DC polarogram: Terms involved - Residual current, Diffusion* *current, Limiting current, Half-Wave Potential* *Role and selection of supporting electrolyte, Interference of oxygen* *and its removal, polarographic Maxima and Maxima Suppressors* *Qualitative aspects of Polarography: Half wave potential* $E_{1/2}$, *Factors affecting* $E_{1/2}$ *Quantitative aspects of polarography: Ilkovic equations: various* *terms involved in it (No derivation)* *1.1.4 Quantification* *1) Wave height – Concentration plots*		*PUBLICATION TEXTBOOK*	

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	(working plots/calibration) *2) Internal standard (pilot ion) method*			

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	3) Standard addition method *1.1.5 Applications advantages and limitations*			
	1.2Amperometric Titrations *1.1.1Principle, Rotating Platinum Electrode(Construction, advantages and limitations)* *1.2.2 Titration curves with example* *1.2.3 Advantages and limitations*	*04L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15L_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE___________________________DEPARTMENT: _____CHEMISTRY_____________________CLASS: ____TYBSC______________ *SEMESTER: ____VITH* *MONTH: Jan-Feb*

ACADEMIC YEAR: _2022-2023__________________
LEARNING OBJECTIVE/S:
The learners will be able to :

1._To study the gas chromatography Principle, Theory and terms involved Block diagram and components,types of columns,stationary phases in GSC and GLC, Detectors: TCD, FID, ECD, Qualitative, Quantitative analysis and applications Comparison between GSC and GLC along with calculations.

2.To study ion exchange chromatography Principle, Types of Ion Exchangers , Ideal properties of resin, Ion Exchange equilibria and mechanism, selectivity coefficient and separation factor,Factors affecting separation of ion,Ion exchange capacity and its determination for cation and anion,Exchangers,Applications of Ion Exchange Chromatography in detail.

PAPER, UNIT, TITLE	*SUBTOPICS*	*NO OF LECTURES ALLOTED*	*REFERENCE/S*	*TEACHING METHOD/ ICT TOOLS USED*

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PAPER IV *UNIT-2* ***METHODS OF SEPARATION - II (3 & 6***	***2.1 Gas Chromatography (Numerical and word problems are expected)*** *2.1.1 Introduction, Principle, Theory and terms involved* *2.1.2 Instrumentation: Block diagram and components,types of columns,* *stationary phases in GSC and GLC, Detectors: TCD, FID,*	*09L*	*SAUJNYA PRAKASHAN TEXTBOOK,* *SHETH PUBLICATION TEXTBOOK,* *HIMALAYA*	*Chalk and Board,Powerpoint Presentation*
UNITS)	*ECD* *2.1.3 Qualitative, Quantitative analysis and applications* *2.1.4 Comparison between GSC and GLC*		*PUBLICATION TEXTBOOK*	

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	2.2 Ion Exchange Chromatography *2.2.1 Introduction, Principle.* *2.2.2 Types of Ion Exchangers , Ideal properties of resin* *2.2.3 Ion Exchange equilibria and mechanism, selectivity coefficient and separation factor,Factors affecting separation of ions* *2.2.4* *Ion exchange capacity and its determination for cation and anion* *exchangers.* *2.2.5 Applications of Ion Exchange Chromatography with reference to Preparation of demineralised water, Separation of amino acids*	*06L*	*SAME AS ABOVE*	*Chalk and board*

SIGNATURE OF THE H.O.D.

SIGNATURE OF THE STAFF

Signature of H.O.D

Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_______

SIGNATURE OF THE H.O.D.

SIGNATURE OF THE STAFF

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Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE______________________DEPARTMENT: _CHEMISTRY__________________________

CLASS: ______FYBSC_____________ *SEMESTER: _IIND* *MONTH: ___Feb- Mar-Apr______________*

ACADEMIC YEAR: _2022-2023____________________

LEARNING OBJECTIVE/S:

The learners will be able to : 1. To study the gaseous state related laws and (Numericals) ,Deviation from ideal gas laws, reasons for deviation from ideal gas laws, Van der Waals equation of state, Joule-Thomson effect: qualitative discussion and experimentation,inversion temperature. (Numericals expected) in detail.

2.To study chemical equilibria and thermodynamics concepts like Reversible and irreversible reactions, law of mass action, dynamic equilibria, equilibrium

constant, (K_c and K_p), relationship between K_c and K_p, Le Chatelier's principle, factors affecting chemical equilibrium (Numericals)Statement of second law of thermodynamics, concepts of entropy and free energy,spontaneity and physical significance of free energy, thermodynamic derivation of. (Numericals).

_PAPER, UNIT, TITLE	*SUBTOPICS*	*NO OF LECTURES ALLOTTED*	*REFERENCE/S*	*TEACHING METHOD/ ICT TOOLS USED*

SIGNATURE OF THE H.O.D.

SIGNATURE OF THE STAFF Mhatre

Signature of H.O.D

Paper 1 **Unit 1** **1.1 Gaseous State:** **1.2 Chemical**	***1.1 Gaseous State:*** *Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities* *(qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's*	*08L*	*HIMALAYA PUBLICATIONS TEXTBOOK,* *SHETH PUBLICATIONS TEXTBOOK*	*Chalk and board,Powerpoint presentation*
Equilibria and Thermodynamic Parameters:	*temperature (Numericals expected)* *Deviation from ideal gas laws, reasons for deviation from ideal gas laws, Van der Waals* *equation of state, Joule-Thomson effect: qualitative discussion and experimentation,* *inversion temperature. (Numericals expected)*			

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Signature of H.O.D

	1.2 Chemical Equilibria and Thermodynamic Parameters: *Reversible and irreversible reactions, law of mass action, dynamic equilibria, equilibrium* *constant, (K_c and K_p), relationship between K_c and K_p, Le Chatelier's principle, factors* *affecting chemical equilibrium (Numericals expected)* *Statement of second law of thermodynamics, concepts of entropy and free energy,spontaneity and physical significance of free energy, thermodynamic derivation of. (Numericals expected)*	*07L*	*SAME AS ABOVE*	*Chalk and board, Powerpoint Presentation*

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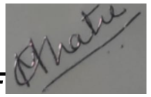
SIGNATURE OF THE STAFF 

Signature of H.O.D

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15L_____

SIGNATURE OF THE H.O.D.

SIGNATURE OF THE STAFF

Signature of H.O.D

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI **DEPARTMENT**: ENVIRONMENTAL SCIENCE

CLASS: FY. BACA **SEMESTER:** II

MONTH: DECEMBER 2022-FEBRUARY 23 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

The Objective of the course is to familiarize the students with the need and ways to conserve the environment.

The learners will be able to:

After the completion of this course the students shall be able to

- list and define various components of environment,
- need of its conservation and role of human beings in its conservation as per the learning material provided by Ministry of Human Resources, Govt. of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES Definition, scope and importance Need for public awareness Natural resources Renewable and non-renewable resources Natural resources & associated problem. a. Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. b. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams benefits and	**15.HRS**	ENVIRONMENTAL STUDIES FOR UNDERGRADUATE COURSE BY ERACH BHARUCHA	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	problems. c. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d. Food resources: World food problems overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e. Energy resources: Growing energy needs, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies. f. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. • Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles. Ecosystems • Concepts of an ecosystem. • Structure and function of an ecosystem. • Producers, consumers and decomposers. • Energy flow in the ecosystem. • Ecological succession. • Food chains, food webs and ecological pyramids. • Introduction, types, characteristic features, structure and function of th following ecosystem: a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystem (ponds, stream lakes, rivers, oceans, estuaries)			
UNIT 2	BIODIVERSITY AND ITS CONSERVATION, ENVIRONMENTAL POLLUTION & SOCIAL ISSUES Biodiversity and Its Conservation • Introduction-Definition: genetic species and ecosystem diversity • Bio-geographical classification of India • Value of biodiversity : Consumptive use, productive use, social, ethical, aesthetic and option values	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	• Bio-diversity at global, national, local levels • India as a mega diversity nation • Hot spots of bio-diversity • Threats to biodiversity: Habitat loss, poaching of wild life, manwildlife conflicts • Endangered and endemic species of India • Conservation of biodiversity: In- situ and Ex-situ conservation of biodiversity Environmental Pollution Definition – • Causes, effects and control measures of: a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear Hazards • Solid waste management: Causes, effect and control measures of urban and industrial wastes • Role of an individual in prevention of pollution • Pollution case studies • Disaster management: floods, earthquake, cyclone and land slides Social issues and environment 15 hrs 15 hrs • From unsustainable to sustainable development • Urban problems related to energy • Water conservation, rain water harvesting, and watershed management • Re-settlement and rehabilitation of people: Its problems and concerns. Case studies. • Environmental ethics: issues and possible solution • Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies. • Wasteland reclamation • Consumerism and waste products • Environment protection act • Air(Prevention and control of pollution) act			

UNIT 3	• Water (Prevention and control of pollution) act • Wildlife protection act • Forest conservation act • Issues involved in enforcement of environmental legislation • Public awareness **HUMAN POPULATION & THE ENVIRONMENT AND UNDERSTANDING EXISTENCE AND CO-EXISTENCE** Human Population & The Environment • Population growth, variation among nations • Population Explosion- family welfare program • Environment and human health • Human rights • Value education • HIV/AIDS • Women and child welfare • Role of information technology in environment and human health • Case studies Understanding Existence and Co-existence • Interrelation and Cyclicity between Material order, Bio-order, Animal order and Human order •Understanding the human conduct : Relationship in Family, Justice in Relationship, Relationship of human with nature (environment),human Behaviour, Human Values, Nature & Morality •Understanding the Human society: Dimensions of Human Endeavour and Objectives, Interrelationship in Society, Mutual Fulfillment and Cyclist in nature.	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	• ALCOHOLIC BEVERAGES a. Definition, history of Alcoholic Beverages & classification. b. Benefits and harmful effects of alcohol.	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
• **UNIT 1** ALCOHOLIC BEVERAGES	**WINES** • **1.1 Definition & history of wines.** • **1.2 Types of Wines:** • **Still (red, white & rose), sparkling/Champagne, Fortified (sherry, port, Madeira, Marsala & Malaga), Aromatized wines (Vermouth).** • **1.3 Methods of production, Still (red, white, rose).** • **a) Viticulture** • **(Wine calendar, terroir, vine species, grape varieties & diseases).** • **b) Vinification**	13	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Google slide

	• **(Manufacturing process, elements of wine & faults in wines).** • **c) Champagne & Sparkling Wines.** • **(History, districts, grape varieties, Methode Champenoise, cuvee close, transfer method, charmat & impregnation, Names & bottle sizes).** • **d) Fortified Wines (Production & types).** • **1) Sherry (Solera system)** • **2) Port** • **3) Madeira (estufagen)** • **4) Marsala** • **5) Malaga** • **e) Aromatized wines (Definition & types)**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II	2.1 Wine producing countries of the world (Regions, Wine laws, labels & shippers). a) Old world wine producing countries (France, Italy, Germany, Spain & Portugal). b) New World wine producing countries (Australia, New Zealand, South Africa, U.S.A. & India).	10	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Google slide
	2.2 Wine tasting, Storage & Service	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	2.3 Food and wine Harmony.	03		Google classroom White board Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNITIII BEER & OTHER FERMENTED BEVERAGES	a) Definition, History & Brewing process. (Components of beer, top fermentation, bottom fermentation) b) Types of Beer, Storage & Service (Lager, Pilsner, Draught, Ale, Stout, Porter, Ice, Lambic & Smoked) c) Other fermented beverages (Cider, Perry, Mead, Sake & Toddy).	03	• Shatbi Basu- The can't go wrong Cocktail book • Brian Glover- The world encyclopedia of Beer	Google classroom White board Google slide
	3.2 SPIRITS a) Introduction and definition b) Pot and patent still method of production. 3.3 History, Production, types & Brand names (national & International) a) Whisky (Scotch, American, Canadian, Irish & Japanese) b) Rum (White, Gold, Dark & Flavoured) c) Brandy (Cognac, Armagnac & Fruit) d) Gin	03	•Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide

	e) Vodka, flavoured vodka f) Tequila & Mezcal			
	3.4 Alcoholic Strength :Proof, GL, Sykes, U.S., British (OIML) 3.5 Other Spirits (Aquavit, schnapps, Pastis, ouzo, arrack) 3.6 LIQUEURS Introduction, definition, classification & production of liqueurs a) Different types of liqueurs: Base, Flavours, Country of origin. b) Brand names of liqueurs (Generic & Proprietary)	04	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	3.7 APERITIFS & BITTERS a) Definition b) Brand names	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	3.8 GLOSSARY OF TERMS RELATED TO Alcoholic beverages, Menu terminologies.	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Student should be able to Identify the role of the Food and Beverage Service department and explain its organization structure and importance.
- Explain how "moments of truth" affect guests, staff members, and managers, and describe the value of guests and staff members to a food service operation.
- Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** INTRODUCTION TO HOTEL AND CATERING INDUSTRY 1.1 Role of catering establishment in travel / tourism industry 1.2 Types of F& B operation (Classification). Commercial (residential / Non Residential) • Welfare • Institutional • Transport (Roads, Railways, Airlines, Marine) 1.3 Structure of hospitality industry and career opportunities	4 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. DEPARTMENTAL ORGANISATION AND STAFFING 2.1 Organization of F & B Department of a Hotel (English & French) 2.2 Etiquette & Attributes of an F & B Personnel. 2.3 Duties and responsibilities of F & B Staff. a) F & B Manager.	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet

	b) Banquet manager. c) Outlet Manager (All day dining/ Bar/ In Room Dining/Specialty Restaurant, etc.) d) Senior captain/ Captain/ Supervisor. e) Steward. f) Sommelier. g) Hostess. h) Cashier. 2.4 Departmental Relationship of F& B with other Departments.			
	Revision Lectures	3 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Identify the operational and Auxiliary areas as well as equipment's used in the Food and Beverage department.
- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1. OPERATIONAL & AUXILLARY AREAS OF FOOD AND BEVERAGE DEPARTMENT: IMPORTANCE & LAYOUTS a) Coffee shop b) Snack bar/ counter service c) Kiosks d) Specialty restaurant/ theme restaurant e) Banquet operations/ outdoor catering f) In-Room Dining g) Dispense Bar / Discotheque/ night club/ pub h) Pantry/Still room i) Kitchen stewarding j) Silver room k) Linen room l) Vending machine	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. FOOD AND BEVERAGE SERVICE EQUIPMENT 2.1 Classification of equipment. (Familiarization of equipment). 2.2 Criteria for selection and requirements.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	• Tableware/ silverware (cutlery/ hollowware/flatware) • Glassware • Crockery • Bar equipment(For all of the above Brands, Measures & Quality suppliers) • Special equipment with their uses. • Furniture (Tables/Chairs/Trolleys/Dumb Waiter) • Linen. • Light and décor • Care and maintenance of equipment. • Napkin folds. 2.3 Table d' hôte, A'la carte Mis-en –place, Mis -en –Scene			
	Revision Lectures	5 Lectures		1. Google Classroom 2. Google Slides 3. Google Meet 4. Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1. DINING SERVICES METHOD AND PROCEDURES 1.1 Different methods of services a. Table service • Silver service/ English service • American/ Plated • Family • Russian • French/ butler • Guéridon b. Bar Counter c. Assisted Service • Carvery • Buffets d. Self Service •Cafeteria: a).Counter b).free-flow c).Echelon d).Supermarket e. Single point service •Take-away	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	•Drive through •Fast food •Vending •Kiosk •Food court •Bar f. Specialized (in-situ) •Tray •Trolley •Home delivery •Lounge •Room •Drive in 1.2 Special Service • Formal Service • Wave service • Carlton club service 1.3a. Rules to be observed while laying the table. b. Rules to be observed while waiting at the table. c. Dos & don'ts in a restaurant			
	Revision Lectures	5 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI SUB: FOOD COST CONTROL

CLASS: SY. BACA **SEMESTER:** III

MONTH: JULY 2022- OCTOBER 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:
To provide the basic understanding to the students in management controls- purchase, stores and production , costing, cost dynamics & cost control

The learners will be able to:
After completion of this units students will be able to understand cost analysis overhead cost elements and control of cost
understand controls- purchase, stores and production
understand costing, cost dynamics & cost control

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	Management Management objectives Importance of financial control in catering establishments Elements of Costs Cost analysis food cost labour cost Overheard cost elements Control of labour cost and over head cost	**15.HRS**	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd.	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

UNIT 2	Purchase Control Objectives of purchasing Purchasing procedures Methods of purchasing Essentials of a good supplier ABC analysis Yield testing, yield calculations & yield percentages Centralized & decentralized purchasing Formats of: Purchase requisition & purchase order Stores Control Objectives of store keeping Methods of store keeping classification of material , Minimum stock, maximum stock & reorder level Method of receiving : Delivery Challans, cross checking with P.O & its documentation Computerized records Methods of stock valuation Continuous / perpetual stock taking Annual stock taking Causes of difference in book stock & physical stock Avoidable & unavoidable causes of food spoilage Production Control Stores issues procedure opening balances of raw material / Left over & material in process Production planning Pricing menu card Daily material consumption record	**15.HRS**	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd.	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

UNIT 3	Daily food cost / gross profit with percentage & control. Standard portion size Standard beverage cost Food cost percentage Seat turnover ratio Average check Sales per menu Gross profit method of pricing Importance of pricing Methods of pricing concept Calculating kitchen profit	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI **SUB:**: FOOD LEGISLATION

CLASS: TY. BACA **SEMESTER:** V

MONTH: DEC 2022- MARCH 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

On successful completion of this course students will be able to assimilate various food laws. Students will be able to understand the various licenses required for starting a commercial property

The learners will be able to:

After completion of this unit student will be able to learn laws and different Acts regarding food and beverage establishment.

After completion of this unit student will be able to state what is Safe food handling, Food adulteration, Food additives and Penalty and compensation for serving unsafe food.

After completion of this unit student will be able to state different liquor laws, tobaco laws, labor laws and difference between Contract and agreement.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1 General Laws regarding food 1.1 Meaning and definition of food	**15.HRS**	FSSAI website	1. POWER POINT PRESENTATION

	1.2 1.2 Prevention of food adulteration act 1.3 What is food adulteration 1.3 What is an adulterant and adulterated food 1.5 Food poisoning 1.5.1 Food additives 1.5.2food preservatives 1.5.3 Penalty / compensation for serving unsafe food 1.6 Food quality and standard 1.7 Prohibition and restriction			2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS
UNIT 2	2 Role of various authorities 2.1 Food safety & standard acts 2.2 Licensing (Basic license required for food service establishment) 2.3 Role of management 2.4 Role of food safety officer & auditor 2.5 Role of food analysts 2.6 Role of adjudicating officer 2.7 Ethical responsibilities of service establishment	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	2.8 Garbage disposal			
UNIT 3	3 Licenses and business contracts 3.1 Liquor license and types 3.2 Procedure to acquire liquor license 3.3 Off premises or offsite premises 3.4 Procedure to acquire liquor license for guests 3.5 Liquor legislation in India 3.5.1 Prohibition 3.5.2 Dry days 3.5.3 Legal age for drinking	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	3.6 Sale of cigarette, cigar and tobacco 3.7 Business contracts 3.7.1 Introduction 3.7.2 Indian contract act 1872 3.7.3 Proposal agreement and contract 3.7.4 Essential elements of a contract 3.7.5 Void / voidable contracts 3.7.6 Types of contract 3.7.7 Hospitality contracts 3.7.8 Labour Laws that provide for rights of catering employees at work place			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI **SUB:** GASTRONOMY

CLASS: SY. BACA **SEMESTER:** IV

MONTH: DEC 2022- MARCH 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

The students will be able to understand the food gastronomy

The learners will be able to:
After completion of this unit student will be able to state the meaning, perception and factors of Gastronomy.
After completion of this unit student will be able to state history of European Gastronomy and the new contributors to develop the modern Gastronomy.
After completion of this unit student will be able to state the history and growth of Indian Gastronomy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	What is Gastronomy? The perception of Gastronomy in society Factors contributing dissemination of Gastronomic knowledge. Orientation to European Gastronomy. Modern approach towards study of Gastronomy Developing the skills of Gastronomic analysis	**15.HRS**	Larrouse Gastronomy	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

UNIT 2	History of European Gastronomy □ Birth and growth till 18th century □ The 19th century-The golden age □ The 20th Century □ Cuisines Nouvelles Contributors to development of modern cuisine and gastronomy □ Escoffier □ Fernand Point □ Ferran Adria □ Grant Achatz Assignment: 1. Current trends of Gastronomy 2. Report of top ten restaurant list (Present/previous year) 3. Growth story of any two Michelin star chefs-European chefs	**15.HRS**	Gastronomique Ma cusine by Auguste Escofier	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

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UNIT 3	History & growth of Indian Gastronomy Philosophy of ancient Indian cuisine Contributors to modern school of Indian cuisine Padamashri Chef Imtiyaz Quershi, Chef Vikas khanna, Gaggan Anand, Ms Camelia Punjabi, Padamashri Ms Thangam Philip, Chef Vineet Bhatia, Chef Atul Kochar, Padamashri Chef Sanjeev Kapoor, Ms Tarla Dalal etc. Current trends in Indian cuisine Factors contributing towards acceptance of Indian cuisine globally.	**15.HRS**	Theory of cookery - Krishna Arora Quantity food production- Thangam Phillip	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMRATA BHOLANATH KHARKANDI & SAGAR VAZE **SUBJECT : PRINCIPLES OF FOOD PRODUCTION**

CLASS: F.Y BACA **SEMESTER: I**

MONTH: AUG 2022- OCT 2023 **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE: Objective of this course is orientation to development of Culinary as profession, introduction to basic baking techniques and pre-preparation techniques of cooking.

The learners will be able to:

- Define aims of cooking, draw organization chart of classical kitchen brigade and list the duties of kitchen staff
- List ingredients, tools and equipment used in bakery and the methods of bread and cookies making
- List the kitchen, tools, equipments and fuels used in commercial kitchen.
- Pre-preparation, methods and list the methods of cooking food.

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**INTRODUCTION TO CULINARY ARTS** **1.1** Aims and Objectives of Cooking Food Hotels 1.1.2 Level of skills & experience 1.1.3 Attitude & Behavior in the kitchen 1.1.4 Career avenues open to chefs. 1.1.5 Classical Kitchen Brigade 1.1.6 Organizational Structure of The Kitchen 1.1.7 Modern Staffing in Various Category 1.1.8 Duties & Responsibilities Of Various Chefs 1.1.9 Coordination of Kitchen with Other Departments **1.2 INTRODUCTION TO BAKING (SAGAR VAZE)**	7 HRS	Basic Cookery – Daniel R. Stevenson Modern Cookery for Teaching & Trade – Thangam Philip	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. GOOGLE CLASSROOM 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

	1.2.1 Safe food Handling practices 1.2.2 Tools, Equipment & Key Ingredients required in Baking 1.2.3 Understanding different types of bread 1.2.4 Understanding different methods in bread making 1.2.5 Basic faults in bread making 1.2.6 Various types of Cookies 1.2.7 Different method of making Cookies	4 HRS	Bakery materials & methods, A. R. Daniel	
	1.3 INTRODUCTION TO INDIAN COOKING 1.3.1 Introduction 1.3.2 Philosophy of Indian 1.3.3 Food Influences of the Invaders &travelers on Indian Cuisine 1.3.4 Equipment used in Indian Cooking 1.3.5 Regional & Religious Influences on Indian Cuisine	4 HRS		
UNIT 2	**2.1 TYPES & SECTIONS OF A KITCHEN** 2.1.1 Commissary 2.1.2 Butchery 2.1.3 Garde Manger 2.1.4 Satellite Kitchen 2.1.5 Bakry & Confectionery 2.1.6 Pantry Kitchen 2.1.7 Stewarding 2.1.8 Show Kitchen 2.1.9 Cafeteria Kitchen 2.1.10 Walk-in cooler & walk-in freezer	8 HRS	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd. Food Preparation & Cooking – Stanly Thorues	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. YOUTUBE VIDEOS 4. GOOGLE CLASSROOM 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS 7. ASSIGNMENT
	2.2 TOOLS, EQUIPMENT & FUELS USED IN THE KITCHEN 2.2.1 Identification, Classification, & Uses of Equipment 2.2.2 Capital & Operational Equipment 2.2.3 Types & Uses of various knives,	7 HRS		

	2.2.4 care & maintenance of knives, 2.2.5 how to choose a knife Fuels used in the kitchen			
UNIT 3	**3.1 PREPARATION & MIXING OF INGREDIENTS** **3.2 COOKING TEMPERATURES & METHODS OF COOKING** 3.2.1 Heat Transfer & its relationship to Food Preparation 3.2.2 British Thermal Unit (BTU) 3.2.3 Heat Fusion Thermal Conductivity 3.2.4 Induction Cooking 3.2.5 Heat Removal-Cooling 3.2.5 Freezing of Foods 3.2.6 Thawing of Foods 3.2.7 Re-heating of Food 3.2.8 Effects of Heat on Foods 3.2.9 Boiling 3.2.10 Poaching 3.2.11 Stewing 3.2.12 Indian Dum Phukt 3.2.13 Braising 3.2.14 Frying a) Shallow b) Deep 3.2.15 Baking 3.2.16 Roasting Spit Roasting /Indian Tandoor Roasting 3.2.17 Microwave Cooking 3.2.18 Blanching	**7.5 HRS** **7.5 HRS**	Food Production Operations – Parvinder S. Bali-Oxford Publication	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. YOUTUBE VIDEOS 4. GOOGLE CLASSROOM 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS 7. ASSIGNMENT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45HRS

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMRATA BHOLANATH KHARKANDI & SAGAR VAZE **DEPARTMENT:** PRINCIPLES OF FOOD PRODUCTION

CLASS: F.Y BACA **SEMESTER: II**

MONTH: DEC 2022 – MARCH 2023 **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE: The Objective of this course is to familiarize the student towards analysis of food, stocks, soups, salads, eggs, fish and basic Indian cuisine

The learners will be able to:

- Furnish the basics of Food analysis List the methods of preparation of soups and stocks as mentioned in the syllabus.
- List the methods of preparation of sauces as mentioned in the syllabus.
- List various types of salads
- List various cuts of Fish
- Define various cuts of meat
- State basic principles of baking sponges and pastries
- List various masala combinations as mentioned in their learning material

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**SENSORY, IDENTIFICATION & EVALUATION OF FOOD INGREDIENTS** Organoleptic Sensory Evaluation (wherever necessary) (Taste, smell, hearing, eyes) Identification of Ingredients Presentation Basic Factors of presentation (temperature, flavour, colour, shapes)	5 HRS	Sensory evaluation of food and Practices by Harry T. Lawless	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

1.2	Texture & Consistency (Firm & Close, short & crumbly, spongy, light & even, flaky, coarse, tough, hard, roping, pouring, soft peak, medium peak, stiff peak) **STOCKS, GLAZES, COOKING LIQUORS& THICKENING AGENTS** Introduction Definition of Stock & Glazes Uses of Stock & Glazes Classification of Stock White Stock (fond Blanc) Brown Stock (fond brun) & Indian Yakhni Stock Fish Stock (fumet) Vegetable Stock Neutral Stock Remouillage Court Bouillon Pot Liquor Emergency Stock / Convenience Bases Elements of Stocks & its Characteristics Precautions to be taken while preparing Stock Definition Starches as Thickening Agent Definition of Roux Types of Roux (white, blond, slack, brown) Other thickening agents • White wash (fecule) • Cornstarch (cornflour) • Arrowroot	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE	5. PRACTICAL OF HENDONIC TESTING (ORGANIC MATERIAL IDENTIFCATION OF SMELL, TASTE, TOUCH, VISUAL) IN CLASSROOM 1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. PRACTICE IN PRACTICALS
1.3	**SOUPS** Classification of soups with examples Clear Soup			

	Broth Consommé Thick soup Puree Cream Velouté Bisque Chowder Cold Soup Speciality Soup Tips for Making Good Soups	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. PRACTICE IN PRACTICALS
UNIT 2 **2.1**	**SAUCES** Definitions Functions & Uses Structure of Sauces Classification of Sauces Emulsions Definition of Emulsion Types of Emulsions a) Miscible b) Immiscible) Stabilisation of Emulsifiers Causes of Breakdown of the Emulsions Preparation of Basic Mother Sauces & Derivatives of Each	5 HRS 5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT
2.2	**SALADS** Introduction Composition of a Salad Types of Salad Various Types of Lettuce Used in Salads Salad Dressing Emerging Trends in Salad Making	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT

2.3	Salient Features of Preparing Good Salads Classification of Vegetables **EGGS & FISH** Introduction Cooking of eggs for breakfast Identification & Classification of Fish Cuts of Fish Darne,Trançon ,Fillet,Suprême, Delice, Goujon Goujonettes Paupiette, En tresse, En Loregnette Pavé Cravate (plaited) Cooking of Fish		FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT
UNIT 3	**3.1 INTRODUCTION TO MEATS** Lamb, Pork, Beef, Veal & Furred Game Introduction Cuts of lamb, beef, veal and pork (with diagram) Processing of a Whole Animal Classification of Meats Yield Tests Introduction to Poultry & Game Bird Introduction Physical & Chemical Characteristics of Poultry Trussing Methods Some Classical Preparations of Poultry **3.2 BASIC SPONGE, CAKE & PASTRY (SAGAR VAZE)** Introduction Pastry Techniques and Principles Principles Behind Making of Sponge Points to be Kept in Mind While Making Sponges & Cakes Different types of Pastry Basic method of making pastry **3.3 MASALAS, PASTES & INDIAN GRAVIES** Introduction Blending of Spices & Concept of Masalas Concept of Dry & Wet Masalas Pastes used in Indian Cooking Difference between Gravies & Curries	**5 HRS** **5 HRS** **5 HRS**	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT 6. PRACTICAL DISSECTION OF MEAT 1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT 6. PRACTICAL DISSECTION OF MEAT

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	Regional Gravies Preparation of Gravies			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45HRS

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio dsouza** DEPARTMENT:HOTEL MANAGEMENT CLASS: BACA SEMESTER: V

MONTH:NOVEMBER TO APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: The objective of Organizational Behaviour is to provide students with the opportunity to diagnose Individual and Group Behaviour. • The study of Structure, Motivation & Change helps to develop skills in improving individual and group performance in entrepreneurial and established ventures. • To develop the overall personality and sustain in the dynamic environment

The learners will be able to: .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	**Introduction to Organizational Behaviour** **1.1 Definition of Organizational Behaviour** **1.2 What Managers Do** 1.2.1 Management Functions 1.2.2 Management Roles 1.2.3 Management Skills 1.2.4 Effective v/s Successful Managerial activities **1.3 Disciplines that contribute to the Organizational Behaviour field** **1.4 Individual Behaviour** 1.4.1 Ability 1.4.2 Biographical characteristics 1.4.3 Learning & Process of Learning 1.4.4 Introduction & Importance to Perception, Values & Attitude 1.4.5 Personality & Its Determinants **1.5 Group Behaviour** 1.5.1 Types of Groups	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard • PPT

	1.5.2 The Five stage model (Group Dynamics / Development)			
	Organizational Structure 2.1 What is Organizational Structure 2.1.1 Six Elements of organizational structure 2.2 Organizational Designs 2.2.1 Common Organizational Designs (Simple, Bureaucratic, Matrix)			
	Motivational Concepts 3.1 Define Motivation 3.2 Early Theories of Motivation 3.2.1 Maslow Abraham's Hierarchy of Needs theory 3.2.2 Douglas McGregor's Theory X & Theory Y 3.2.3 Fredrick Herzberg's Two Factor Theory 3.2.4 Mc Cleland's Theory of Needs 3.3 Contemporary Theories of Motivation 3.3.1 Cognitive Evaluation Theory (Definition) 3.3.2 Goal setting Theory (Definition) 3.3.3 Self Efficacy Theory (Definition) 3.3.4 Reinforcement Theory (Definition) 3.3.5 Equity Theory (Definition) 3.3.6 Expectancy Theory (Definition) 3.4 Leadership & Types of Leadership 2.2.2 New Design options (Virtual, Team, Boundaryless)	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Stress Management 4.1 What is Stress? 4.2 Potential Sources of stress			

	4.3 Consequences of Stress 4.4 Managing stress 4.5 Introduction to Quality of Work Life			
	Organizational Change 5.1 What is change? 5.2 Elements / Factors of Change (External & Internal) 5.3 Planned Change 5.4 Resistance to change 5.5 Overcoming Resistance to Change 5.6 Approaches to Managing Organizational change 5.6.1 Lewin's 3 step model 5.6.2 Action Research 5.6.3 Meaning of Organizational Development & Techniques / Intervention 5.7 Introduction to Diversity & Managing Diversity	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Conflict Management 6.1 Definition of Conflict 6.2 Sources & Types of Conflict 6.3 Conflict Management Styles 6.4 Power and Politics 6.4.1 Concept & Basis of Power 6.4.2 Organization Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production & Patisserie I **CLASS:** FY.BACA

SEMESTER: I MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

- To inculcate a right attitude and the required basic knowledge and technical skills in the art of culinary and the food production department.
- To introduce the various equipments and utensils used in the kitchen.

The learners will be able to:

- The learners will be able to:
- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**Dairy Products** 1.1 Identify & Name the Dairy Products - Milk (Full Cream (whole), Skimmed, Semi Skimmed Milk, Condensed Milk (Evaporated, Powdered) - Cheese (Hard, Semi - Hard, Soft) - Yoghurt & Cultured Milk Drinks (flavoured, natural & drinking yoghurt) - Butter (unsalted, salted) & Cream (double cream, soured cream, crème fraîche 1.2 State the nutritional value of dairy products 1.3 Explain the factors to consider when choosing dairy products		Ingredients - Loukie Werle & Jill Cox – H. Fullman The world Encyclopedia of Cooking ingredients – Christine Ingram - Hermes House Herbs - Joanna farrow - Hermes House The Visual Food Encyclopedia - The Definitive Practical Guide to Food & Cooking – Francois Fortin &	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS.

	1.4 Explain how dairy products should be stored 1.5 Demonstrate the use of suitable methods when preparing and cooking dishes using dairy products. **2. Cereal Products** 2.1 Identify & Name the types of cereals : - Wheat, Corn, Oats, Rice, Barley, Rye, Quinoa, Millet, Beans, Lentils, Peas Cereal Grain - Semolina, Cracked Wheat, Bran, Wheat Flakes, Cous Cous, Bulgur Wheat Cereal Products - Flours, Bread, Pasta, Noodles, Asian Wrappers, Raising Agent (Fresh Yeast, Dried Yeast, Baking Powder , Baking Soda, Cream of Tartar) 2.2 State the nutritional value of the different types of cereals and cereal products 2.3 Identify the basic structure of cereal grains 2.4 Explain the factors to consider when choosing cereals and cereal products 2.5 Explain how cereals and cereal products should be stored 2.6 Demonstrate the use of suitable methods when preparing and cooking cereals and cereal products **3. Eggs** Identify different types of egg (hen, quail, duck, emu, ostrich, bantam, goose, turkey, guinea fowl eggs, pheasant, wild bird eggs & preserved eggs). 3.1 Identify the structure of an egg 3.2 State the nutritional value of an egg 3.3 Explain the factors to consider when choosing eggs 3.4 Explain how eggs should be stored 3.5 Describe the uses of eggs 3.6 Demonstrate the use of suitable methods when preparing and cooking eggs. 4. Vegetables 4.4 Name & Classify the different vegetables : - Roots, tubers, bulbs, shoots, green leaves, Chinese greens, peas, beans, pods,		Serge D’Amico – Macmillan	

	squashes, vegetable fruits, salad vegetables, mushrooms, fungi, stems, flowers, fruit, seeds, (pulses and legumes) 4.2 State the nutritional value of vegetables 4.3 Explain the factors to consider when choosing vegetables 4.4 Explain how vegetables should be stored 4.5 Demonstrate the use of suitable methods when preparing and cooking vegetables			
UNIT2	5. Fruits 5.1 Name && Classify the different Fruits: - Apples, Pears, Quinces, Medlars, - Melons, grapes, figs, rhubarb, - Berries, currants, citrus, pome, stones, tropical - Dried, bottled & crystallised fruits 5.5 State the nutritional value fruit 5.4 Explain the factors to consider when choosing fruits 5.5 Explain how fruits should be stored 6. Flavourings & Herbs 6.1 State the uses of flavourings & herbs 6.2 Name some common Herbs & Spices 6.6 Explain how herbs & spices should be stored 6.4 Describe the uses of eggs 6.5 Demonstrate the use of spices & herbs in preparation of dishes / meals. 6.6 Demonstrate the use of suitable methods when preparing and cooking eggs.			1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

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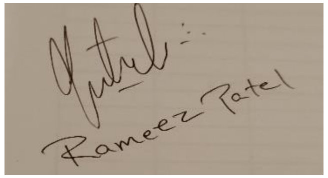
UNIT 3	7. Meat, Poultry & Game 7.1 Identify &Name the different types of Meat : - Beef & Veal - Pork, Lamb, Chicken, Turkey - Duck & Goose - Furred & Feathered Game - Sausages & Salami - Ham, Bacon & Cured Meat 7.2 State the nutritional value of the different types of Meat 7.3 Identify the cuts of meat 7.4 Describe the structure of meat and its effects on preparation and cooking 7.5 Explain the factors to consider while choosing meat 7.6 Explain how meat should be stored 7.7 Demonstrate the use of suitable methods when preparing and cooking meat			1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

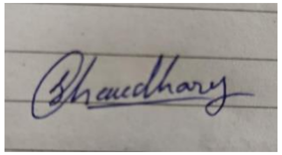
The learners will be able to:

- The different types of Menus and principles of menu planning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** MEALS AND MENU PLANNING 1.1 Menu – Origin, definition & objectives 1.2 Types of meals (Breakfast, Brunch, Lunch, Afternoon tea, High tea, Dinner) Types of Menu a. A la c arte b. Table d' hote c. Cyclic menu d. Banquet menu e. Carte du jour / plat du jour f. Californian menu g. Take-away Other types of menu a) Children's menu b) Club menu c) Ethnic menu	7 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question

	d) Health menu e) Spa Menu f) Ayurvedic Menu 1.4 Principles of Menu planning 1.5 Breakfast: English, Continental, American, Indian 1.6 Types of Tea Service: Full Afternoon Tea, High Tea.			
	Revision Lectures	3 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10



SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

The learners will be able to:

- Sequence and course in the French classical menu also identify general accompaniments.
- Types, storage and service of Tobacco

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1.FRENCH CLASSICAL MENU 1.1 a. Sequence and Courses. b. General Accompaniments. 1.2 Ice creams: Types & categories of Ice creams	6 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	2.TOBACCO a) Introduction to Cigars and cigarettes. b) Types of tobacco c) Shape, size, color & Brand names with country of origin.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	5 Lectures		1. Classroom Theory Test 2. Viva

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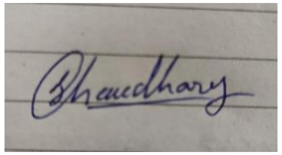
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

The learners will be able to:

- Types, storage and service Non alcoholic beverages.
- Simple control system followed in a restaurant.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1.1 NON ALCOHOLIC BEVERAGES a. Definition of beverages b. Classification chart –alcoholic & non alcoholic drinks. c. Stimulating -Tea, Coffee & Cocoa, (origin, manufacture, Method of preparation, types & brands) d. Nourishing -health drinks e. Refreshing –juices, squashes, crushes, syrups & aerated water Table Water (origin, types & brands) & carbonated water.	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question

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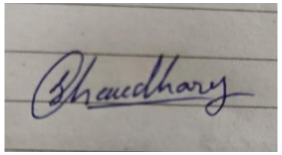
HOTEL & TOURISM MANAGEMENT STUDIES

	1.2 SIMPLE CONTROL SYSTEMS. a. Restaurant reservation system b. KOT Checking System c. Types of KOT / BOT d. Method of billing (manual & computerized)	4 Lectures		1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	4 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

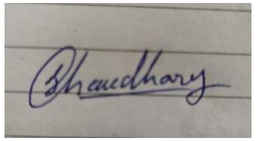
The learners will be able to:

- The different types of Menus and principles of menu planning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** MEALS AND MENU PLANNING 1.1 Menu – Origin, definition & objectives 1.2 Types of meals (Breakfast, Brunch, Lunch, Afternoon tea, High tea, Dinner) Types of Menu a. A la c arte b. Table d' hote c. Cyclic menu d. Banquet menu e. Carte du jour / plat du jour f. Californian menu g. Take-away Other types of menu a) Children's menu b) Club menu c) Ethnic menu	7 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question

	d) Health menu e) Spa Menu f) Ayurvedic Menu 1.4 Principles of Menu planning 1.5 Breakfast: English, Continental, American, Indian 1.6 Types of Tea Service: Full Afternoon Tea, High Tea.			
	Revision Lectures	3 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Sequence and course in the French classical menu also identify general accompaniments.
- Types, storage and service of Tobacco

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1.FRENCH CLASSICAL MENU 1.1 a. Sequence and Courses. b. General Accompaniments. 1.2 Ice creams: Types & categories of Ice creams	6 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	2.TOBACCO a) Introduction to Cigars and cigarettes. b) Types of tobacco c) Shape, size, color & Brand names with country of origin.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	5 Lectures		1. Classroom Theory Test 2. Viva

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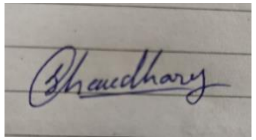
HOTEL & TOURISM MANAGEMENT STUDIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

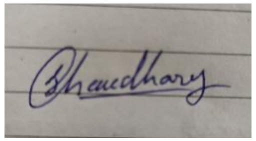
- Types, storage and service Non alcoholic beverages.
- Simple control system followed in a restaurant.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

Unit III	1.1 NON-ALCOHOLIC BEVERAGES a. Definition of beverages b. Classification chart –alcoholic & non alcoholic drinks. c. Stimulating -Tea, Coffee & Cocoa, (origin, manufacture, Method of preparation, types & brands) d. Nourishing -health drinks e. Refreshing –juices, squashes, crushes, syrups & aerated water Table Water (origin, types & brands) & carbonated water.	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	1.2 SIMPLE CONTROL S YSTEMS. a. Restaurant reservation system b. KOT Checking System c. Types of KOT / BOT d. Method of billing (manual & computerized)	4 Lectures		1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	4 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17



VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Student should be able to identify the role of the Food and Beverage Service department and explain its organization structure and importance.
- Explain how "moments of truth" affect guests, staff members, and managers, and describe the value of guests and staff members to a food Service operation.
- Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** INTRODUCTION TO HOTEL AND CATERING INDUSTRY 1.1 Role of catering establishment in travel / tourism industry 1.2 Types of F& B operation (Classification). Commercial (residential / Non Residential) • Welfare • Institutional • Transport (Roads, Railways, Airlines, Marine) 1.3 Structure of hospitality industry and career opportunities	4 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. DEPARTMENTAL ORGANISATION AND STAFFING 2.1 Organization of F & B Department of a Hotel (English & French) 2.2 Etiquette & Attributes of an F & B Personnel. 2.3 Duties and responsibilities of F & B Staff. a) F & B Manager. b) Banquet manager.	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet

	c) Outlet Manager (All day dining/ Bar/ In Room Dining/Specialty Restaurant, etc.) d) Senior captain/ Captain/ Supervisor. e) Steward. f) Sommelier. g) Hostess. h) Cashier. 2.4 Departmental Relationship of F& B with other Departments.			
	Revision Lectures	3 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Identify the operational and auxiliary areas as well as equipment's used in the Food and Beverage department.
- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1. OPERATIONAL & AUXILLARY AREAS OF FOOD AND BEVERAGE DEPARTMENT: IMPORTANCE & LAYOUTS a) Coffee shop b) Snack bar/ counter service c) Kiosks d) Specialty restaurant/ theme restaurant e) Banquet operations/ outdoor catering f) In-Room Dining g) Dispense Bar / Discotheque/ night club/ pub h) Pantry/Still room i) Kitchen stewarding j) Silver room k) Linen room l) Vending machine	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. FOOD AND BEVERAGE SERVICE EQUIPMENT 2.1 Classification of equipment. (Familiarization of equipment). 2.2 Criteria for selection and requirements. • Tableware/ silverware (cutlery/ hollowware/flatware)	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	• Glassware • Crockery • Bar equipment(For all of the above Brands, Measures & Quality suppliers) • Special equipment with their uses. • Furniture (Tables/Chairs/Trolleys/Dumb Waiter) • Linen. • Light and décor • Care and maintenance of equipment. • Napkin folds. 2.3 Table d' hôte, A'la carte Mis-en –place, Mis -en –Scene			
	Revision Lectures	5 Lectures		1. Google Classroom 2. Google Slides 3. Google Meet 4. Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1. DINING SERVICES METHOD AND PROCEDURES 1.1 Different methods of services a. Table service • Silver service/ English service • American/ Plated • Family • Russian • French/ butler • Guéridon b. Bar Counter c. Assisted Service • Carvery • Buffets d. Self Service •Cafeteria: a).Counter b).free-flow c).Echelon d).Supermarket e. Single point service •Take-away	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	5. Google Classroom 6. Google Slides 7. Video Links 8. Google Meet

	•Drive through •Fast food •Vending •Kiosk •Food court •Bar f. Specialized (in-situ) •Tray •Trolley •Home delivery •Lounge •Room •Drive in 1.2 Special Service • Formal Service • Wave service • Carlton club service 1.3a. Rules to be observed while laying the table. b. Rules to be observed while waiting at the table. c. Dos & don'ts in a restaurant			
	Revision Lectures	5 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

SIGNATURE OF THE STAFF

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VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• **UNIT 1** ALCOHOLIC BEVERAGES	• ALCOHOLIC BEVERAGES a. Definition, history of Alcoholic Beverages & classification. b. Benefits and harmful effects of alcohol.	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	WINES • **1.1 Definition & history of wines.** • **1.2 Types of Wines:** • **Still (red, white & rose), sparkling/Champagne, Fortified (sherry, port, Madeira, Marsala & Malaga), Aromatized wines (Vermouth).** • **1.3 Methods of production, Still (red, white, rose).** • **a) Viticulture** • **(Wine calendar, terroir, vine species, grape varieties & diseases).** • **b) Vinification**	13	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Quiz Google slide

	• **(Manufacturing process, elements of wine & faults in wines).** • **c) Champagne & Sparkling Wines.** • **(History, districts, grape varieties, Methode Champenoise, cuvee close, transfer method, charmat & impregnation, Names & bottle sizes).** • **d) Fortified Wines (Production & types).** • **1) Sherry (Solera system)** • **2) Port** • **3) Madeira (estufagen)** • **4) Marsala** • **5) Malaga** • **e) Aromatized wines (Definition & types)**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II	2.1 Wine producing countries of the world (Regions, Wine laws, labels & shippers). a) Old world wine producing countries (France, Italy, Germany, Spain & Portugal). b) New World wine producing countries (Australia, New Zealand, South Africa, U.S.A. & India).	10	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Quiz Google slide
	2.2 Wine tasting, Storage & Service	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	2.3 Food and wine Harmony.	03		Google classroom White board Quiz Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNITIII BEER & OTHER FERMENTED BEVERAGES	a) Definition, History & Brewing process. (Components of beer, top fermentation, bottom fermentation) b) Types of Beer, Storage & Service (Lager, Pilsner, Draught, Ale, Stout, Porter, Ice, Lambic & Smoked) c) Other fermented beverages (Cider, Perry, Mead, Sake & Toddy).	03	• Shatbi Basu- The can't go wrong Cocktail book • Brian Glover- The world encyclopedia of Beer	Google classroom White board Quiz Google slide
	3.2 SPIRITS a) Introduction and definition b) Pot and patent still method of production. 3.3 History, Production, types & Brand names (national & International) a) Whisky (Scotch, American, Canadian, Irish & Japanese) b) Rum (White, Gold, Dark & Flavoured) c) Brandy (Cognac, Armagnac & Fruit) d) Gin	03	•Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide

	e) Vodka, flavoured vodka f) Tequila & Mezcal			
	3.4 Alcoholic Strength :Proof, GL, Sykes, U.S., British (OIML) 3.5 Other Spirits (Aquavit, schnapps, Pastis, ouzo, arrack) 3.6 LIQUEURS Introduction, definition, classification & production of liqueurs a) Different types of liqueurs: Base, Flavours, Country of origin. b) Brand names of liqueurs (Generic & Proprietary)	04	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	3.7 APERITIFS & BITTERS a) Definition b) Brand names	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	3.8 GLOSSARY OF TERMS RELATED TO Alcoholic beverages, Menu terminologies.	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.

- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1.1 F & B Outlet Planning 1.1.1 Objective of a good layout 1.1.2 Steps in planning of layout. (Specialty Restaurants, Coffee Shop, Room Service) 1.1.3 Factors to be considered while planning the actual ambience (Colour, light, décor, furniture & uniform) 1.2 Operational aspects of various F & B Outlets (Specialty Restaurants, Coffee Shop, Room Service) 1.2.1 Menu planning 1.2.2 Constraints of Menu planning 1.2.3 Planning of staff requirement 1.2.4 Shifts (Panzer, Straight, Split & Reliever)	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	1.2.5 Factors to be considered for selecting appropriate Crockery, Cutlery, Glassware, and Linen. 1.3 Elements of cost 1.3.1 Types of cost (Material, Labour & Overhead) 1.3.2 Cost Groups (Fixed, semi-fixed & variable) & types of profit (gross & net) 1.3.3 Breakeven / Cost volume profit analysis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-24

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.

- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	Function Catering / Banquets 2.1 Definition, History & Importance 2.2 Organization of Banquet dept., duties and responsibilities. 2.3 Types of Banquets: Formal, Semiformal & Informal 2.4 Banquet Sales 2.5 Banquet reservation diary and booking procedure. 2.6 Function contract & Function prospectus 2.7 Banquet Menus 2.8 Types of service in the banquets.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	2.9 Staffing & Duty allocation 2.10 Toast procedure at wedding reception & Protocol 2.11 Outdoor catering. 2.12 Glossary **Glossary**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.
- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	3.1 Buffet. 3.1.1 Definition & Types of buffets. (Meal period, manner of consumption, food served & other types – Display, Gourmet & Running) 3.1.2 Points to be considered while planning a buffet. 3.1.3 Buffet equipment 3.1.4 Banquet layout (formal, informal & cabaret) & Space area calculation 3.1.5 Meeting room setups: (U Shape, Hollow Square, Classroom Theatre, Board of Directors, 'T' Shape)	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	3.2 Food and Beverage Management in various catering establishments 3.2.1 Railway Catering & Airline catering 3.2.2 Marine Catering (offshore & cruise liners) 3.2.3 Industrial catering			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

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The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1 Gueridon Service 1.1 Origin, history and definition 1.2 Factors to create impulse buying. 1.3 Advantages and disadvantages of Gueridon service 1.4 Principles of Gueridon service. 1.5 Flambé trolley & other trolleys (Carving, Cheese, Liqueur, Salad & Dessert). 1.6 Gueridon equipment & ingredients, Mise en place & Presentation.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A Training Manual,(Second Edition),	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	2 Food and Beverage Management. 2.1 Objectives of Food & Beverage Management. 2.2 Food and Beverage Management/ Function 2.3 Cost and Market orientation 3 Food and Beverage Control 3.1 Objective of F& B Control. 3.2 Obstacles of F& B Control. 3.3 Food Control checklists. 3.4 Beverage Control checklist			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

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The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	Bar Operations 4.1 Definition & classification. 4.2 Layout & parts for Front of the house dispense bar. 4.3 Bar Thefts and frauds. (Nature and prevention.) 4.4 Records & Licenses maintained in a Bar (Naukarnama, Permit, TPIN, Bill book, & B.O.T.). 5.1 Cocktails & Mixed drinks a) Introduction, History & Definition	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	b) Bar Equipment. (glassware, fixed & movable equipment) c) Methods of Mixing Cocktails. (Stirred, Shaken, Built up/Layered, Blended & Muddled) d) Styles of Cocktails (Collins, cobblers, coolers, crustas, cups, e) daisies, eggnogs, flips, frappes, fixes, fizzes, Highball, juleps, f) Pick-me-ups, pousse café, smashes, sours, swizzles & toddies). g) Rules to be observed while making cocktails. 5.2 Recipes of classic & exotic cocktails. a) Whisky: (Godfather, Manhattan, Mint Julep, Whisky Sour		Training Manual,(Second Edition),	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

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The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	Cycle of control. 6.1 Operational phase 6.1.1 Purchasing 6.1.1.1Methods of purchasing Food / Beverage. (Contract / Daily / Weekly/ Fortnight / Cash and Carry) 6.1.1.2 Selection of a supplier 6.1.1.3 Purchase specification 6.1.1.4 Purchase order.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	6.1.2 Receiving 6.1.2.1 Quality inspection 6.1.2.2 Quantity inspection 6.1.2.3 Receiving records Maintained 6.1.3Storing & Issuing 6.1.3.1Bin card 6.1.3.2Store ledger 6.1.3.3 Indent/ requisition 6.2 Post Operational Control: Management after the event phase. 6.2.1 Methods of Food control. 6.2.2 Methods of Beverage control 6.2.3 Detailed Daily Food cost report		Training Manual,(Second Edition),	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
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HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pratyasha Pattanaik** DEPARTMENT: Room Division Management (Front Office) CLASS: F.Y. BSc HS

SEMESTER: I

MONTH: July to November ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE: To introduce the students to the hotel & tourism Industry. Students would develop the necessary skill required as an efficient and effective receptionist and to handle situations and types of guest in the job.

The learners will be able to:

- Understand the appropriate organization structures and duties in the Front Office and related departments.
- Develop, prepare guest relations, and evaluate practical aspect with guests.
- Understand the role of public relations with hotel industry.
- Understanding the functioning of the Telecommunication department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	**Introduction to the Hotel & Tourism Industry** • An account of development & growth of hotel & tourism Industry in the World • Development and growth of Hotel & Tourism Industry In India. **Classification of Hotels by** • Location • Architectural Design • Number of rooms • Ownership	15	Jatashankar Tiwari – Front Office Management. Sudhir Andrews – Hotel Front Office Training Manual.	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

	• Pricing Plan • Type of Clientele • Duration of Guest Stay • Facilities Offered • Star ratings criteria in India (HRACC) • Supplementary Accommodation			
UNIT – 2	**Tariff Structure** 1.Types of Rooms Single, Double, Twin, Hollywood twin, Interconnecting, Adjacent, Adjoining, Lanai, Penthouse, Duplex, Efficiency, Physically Challenged, Studio, Parlour, Hospitality Room, Suite (Types). 2.Tariff Fixation • Check-in and Check-out basis, 24 hour basis, on the basis of competitor's rate, Night basis, Day rate. 3.Types of Meal Plans European, Continental, Bermuda Plan, Modified American Plan (Half- Board, Demi- Pension), and American Plan (Full-Board: En Pension).	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

	4. Packages and Special Rates Rack rate, Group rate, Volume rate, Government rate, FIT, Wholesale net rate, discounted rates, Seasonal rate, Crib Rate, Extra bed rate, Family rate, Crew rate, Week day/Weekend rates, Membership rates, Executives of the other units of the same chian, Corporate rate, Commercial rate, Advance purchase rate Package rate, Ad-hoc rate 5. Taxation • Luxury tax, Expenditure tax, Sales tax, Value added tax and other statutory taxes. • Service Charges. **Organisation of the Front Office Department** Organisation charts of • Small Hotel • Medium Hotel • Large Hotel Sections of the Front Office Department Inter and Intra departmental Co-ordination Job Specifications and Job Description • Front Office Manager • Duty Manager • Guest Relations Executive			

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UNIT – 3	**Telecommunications** Introduction • Types of Exchange- PBX, PABX, EPABX • Other Communication Equipment- Walkie- Talkies, Pagers, Mobile Phones, Telephone Instruments, Pay Phones, Facsimile. • Organisation of the Telecommunications department • Job descriptions of the Telecommunications department supervisor & Operator • Skills and Competencies of the Telephone Operator • General duties of a Telephone Operator • Internet Access- Introduction, Dial up access, High speed with wired access, High speed with warless access • Future of Hotel telephones- Voice-over-internet-protocol (VOIP) • AYS – at your service	15		1. Slides 2. Videos 3. Quiz 4. Power Point 5. Presentation 6. PDF 7. Word 8. White Board 9. Projector 10. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Prats

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Deepika Vibhad** DEPARTMENT: Room Division Management (Front Office) CLASS: FY BSc HS

SEMESTER: II

MONTH: November to March ACADEMIC YEAR: **2022 -2023**

LEARNING OBJECTIVE: The student should be able to understand the concept and functioning of room reservations, reception & guest services.

The learners will be able to: know the entire procedure of room reservations and its types, different situations of check in along with the guest services.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	RESERVATIONS • Sources of Reservations • Modes of Reservations • Types of Reservations • Systems of reservations • Overbooking • Job Description of Reservation Personnel	15	Jata Shankar Tiwari – Front Office Management Sudhir Andrews – Front Office Training Manual B K Chakravati – Front Office Management in Hotel	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

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UNIT – 2	RECEPTION • Profiling the guest • Guest Registration Process • Regular and Non Regular Guest • ‘C’Form & ‘F’ From	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion
UNIT -3	GUEST SERVICES • Handling Guest Mail • Message Handling • Custody and Handling of Keys • Guest Paging • Safe Deposit Locker • Guest Room Change • Custody of Deposited Luggage	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Prats

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production & Patisserie I **CLASS:** FY.Bsc.Hs

SEMESTER: I MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

- To inculcate a right attitude and the required basic knowledge and technical skills in the art of culinary and the food production department.
- To introduce the various equipments and utensils used in the kitchen.

The learners will be able to:

- The learners will be able to:
- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

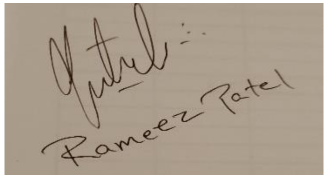
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**1 Introduction to the Food Production Department** 1.1 Levels of Skills and Experience 1.2 Attitude and Behavior in the Kitchen 1.3 Kitchen Uniforms 1.4 Personal Hygiene 1.5 Safety Procedures for Handling Equipment **2 Culinary History and Culinary Terms** (Explanation with Examples) Origins of Modern Cookery	01.HRS 02.HRS 04HRS	Thangam Philip – Modern Cookery I & II – Orient Longman – 2001 Auguste Escoffier – Ma Cuisine – Hamlyn – 2000 Digvijay Singh – Cooking Delight of the Maharajas – Vakils, Feffer & Son's Ltd. –	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS.

UNIT 2	**3 Equipment and Hand Tools used in Kitchen & Different Types of Fuels used in Kitchen** 3.1 Hand tools and utensils used in Kitchen 3.2 Various Fuels used in the Kitchen 3.3 Advantages & Disadvantages of Various Fuels 3.4 Various Equipment used in the Kitchen **4 Introduction to Cooking** 4.1 Aims and Objectives of Cooking 4.2 Classification of Various Raw Materials according to Functions 4.3 Various Textures and Consistencies 4.4 Methods and Techniques of Preparation **5 Stocks** 5.1 Definition of Stock 5.2 Types of Stocks 5.3 Preparation (Recipe), Storage, Care and Precautions in Preparation **6 Culinary Terms**	**04.HRS** **02.HRS** **02.HRS**	1982 Philip Dowell & Adrian Barley – The Book of Ingredients – Mermaid Books – 1987 Wayne Gisslen – Professional Baking – John Wiley & Sons – 1994 Martha Day – Baking – Lorenz Books – 1999 M. J. Leto & Bode – The Larder Chef – Heinemann Publishing House – 1989 Parvinder S. Bali - Food Production Operations Thangam E. Philip - Modern Cookery for Teaching and Trade - 4th Vol. – 1996 Krishna Arora - Theory of Cookery – 2nd – 1992 Wayne Gisselen - Professional Cooking – 4th – 1992 Wayne Gisselen - Professional Baking – 2nd – 1994 J. C. Dubey - Basic Bakery - 1st – 1992 Kinton Ceserani - Theory of Catering – 7th – 1996 Bernard Davis - Food Commodities - 4th – 1998 Daniel R. Stevenson - Basic Cookery The Process Approach - 5th – 1997	
	7 Methods of Cooking 7.1 Various Methods of Cooking Foods (Roasting, Grilling, Frying, Baking, Boiling, Poaching, Microwave)	**04.HRS**		

UNIT3	7.2 Principles of each Method and Precaution to be taken **8 Hierarchy and Kitchen Staffing** 8.1 Classical Kitchen Brigade 8.2 Modern Staffing in Various Category Hotels 8.3 Duties and Responsibilities of Various Chefs 8.4 Role and Duties of the Executive Chef 8.5 Inter-Departmental Co-operation and Co-ordination **9 Egg** 9.1 Selection of Eggs 9.2 Structure of Eggs 9.3 Uses of Eggs 9.4 Nutritive Value of Eggs **10 Vegetables & Fruits** 10.1 Classification of Vegetables 10.2 Colour Pigments in Vegetables and Effects of Heat, Acid and Alkali on each of them 10.3 Cuts of Vegetables 10.4 Classification of Fruits 10.5 Uses of Fruits 10.6 Salad & Salad Dressing **11 Bakery & Pastry Sugar** 11.1 Importance of Sugar 11.2 Types of Sugar 11.3 Cooking Stages and Temperature of Various Stages 11.4 Uses of Sugar **12 Sauces** 12.1 Classification of Sauces / Composition 12.2 Mother Sauces and its Recipes (1 Liter) 12.3 Derivatives **13 Bakery & Pastry**	**03.HRS** **02.HRS** **04.HRS** **02.HRS** **04.HRS** **03.HRS**		1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS 1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

	13.1 Bread Making Principles of Bread Making Role of Each Ingredient Simple Yeast Bread Baking Temperature & its Importance 13.2 Cookies Types of Cookies Methods of Preparation 13.3 Flour – Structure of Wheat Types of Wheat Types of Flour Milling of Flour Nutritive Value 13.4 Raising Agents Classification and Role of Raising Agents	**02.HRS** **04.HRS**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production and Patisserie **CLASS:** FY.Bsc.Hs SEMESTER: 2

MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

• To develop a keen interest in food production and to enable students to experiment, innovate and progressively produce a variety of preparation / dishes.

• To gain confidence to adapt to the technical skills and the art of preparing different menus, Indian as well as Continental.

• By the end of the second semester students should be confident enough in their skills which would boost their morale to take up the challenge of bulk cookery in the third and fourth semester

The learners will be able to:

- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**1.Culinary Terms with Explanation & Examples** **2.Layout of kitchen** 2.1 General Layout of the Kitchen 2.2 Receiving Area	**03.HRS** **03.HRS**	Thangam Philip – Modern Cookery I & II – Orient Longman – 2001 Auguste Escoffier – Ma	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET

UNIT 2	2.3 Storage 2.4 Wash up **3.Soups** 3.1 Classification with Examples 3.2 Consommé and Garnishes with their names (Any 10 common name) **4.Fish Mongery** 4.1 Classification of Fish with examples 4.2 Selection, Cooking & Storage of Fish 4.3 Local Names of Fin Fish and Shell Fish 4.4 Cuts of Fish **5.Poultry** 5.1 Cuts of Poultry 5.2 Selection and Uses of Cuts **6.Rice, Cereals & Pulses** 6.1 Introduction, Classification of Cereals and Pulses 6.2 Varieties of Rice and Byproducts 6.3 Nutritive Value of Various Cereals 6.4 Sprouts and Uses **7.Meat** 7.1 Introduction to Meat Cookery 7.2 Cuts of Lamb, Pork, Beef / Veal 7.3 Variety of Meats / Offal 7.4 Selection and Storage of Meats **8.Milk and Milk Products**	**02.HRS** **02.HRS** **02.HRS** **03.HRS** **04.HRS** **05.HRS**	Cuisine – Hamlyn – 2000 Digvijay Singh – Cooking Delight of the Maharajas – Vakils, Feffer & Son's Ltd. – 1982 Philip Dowell & Adrian Barley – The Book of Ingredients – Mermaid Books – 1987 Wayne Gisslen – Professional Baking – John Wiley & Sons – 1994 Martha Day – Baking – Lorenz Books – 1999 M. J. Leto & Bode – The Larder Chef – Heinemann Publishing House – 1989 Parvinder S. Bali - Food Production Operations Thangam E. Philip - Modern Cookery for Teaching and Trade - 4th Vol. – 1996 Krishna Arora - Theory of Cookery – 2nd – 1992 Wayne Gisselen - Professional Cooking – 4th – 1992 Wayne Gisselen - Professional Baking – 2nd – 1994 J. C. Dubey - Basic Bakery - 1st – 1992 Kinton Ceserani - Theory of Catering – 7th – 1996 Bernard Davis - Food Commodities - 4th – 1998 Daniel R. Stevenson - Basic Cookery The Process Approach - 5th – 1997	4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS HOME STUDY AND QUIZ FOR STUDENTS.

	8.1 Introduction, Processing of Milk, Pasteurization, Homogenization, Milk in Various Forms e.g. Toned, Powder, Skimmed, Condensed & Evaporated. 8.2 Cream – Introduction, Processing & Types 8.3 Butter – Introduction, Processing & Types 8.4 Cheese – Introduction, Classification with Examples, Processing, Types, Cooking with Cheese and Uses.			
UNIT3	**9,Bakery & Pastry** **Shortening – Fats and Oils** 9.1 Saturated and Un-saturated Fats 9.2 Advantages & Disadvantages of Using Fats 9.3 Varieties of Shortening **10.Tea & Coffee** 10.1 Introduction 10.2 Producing Regions/Country 10.3 Types and Methods of Preparation 10.4 Popular Brands and Variety Available **11.Thickening Agents used in Indian Gravies** 11.1 Role of Thickening Agents **12.Indian Cookery** 12.1 History of Spices and Trade Routes 12.2 Basic Spices, Condiments and Masalas 12.3 Role of Spices in Indian Cuisine 12.4 Indian Equivalent name 12.5 Blending of Spices 12.6 Concept of Wet and Dry Masalas 12.7 Regional Varieties of Basic Masalas 12.8 Basic Composition of Some Important Masalas **13.Menu Planning** 13.1 History of Menu 13.2 Types of Menu 13.3 Menu Planning Principles	**03.HRS** **02.HRS** **01.HRS** **03.HRS** **02.HRS**		1.

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	14.Bakery & Pastry 14.1 **Pastries** • Classification of Pastries • Varieties • Role of Each Ingredient • Baking Temperature and Time of Each Pastry 14.2 **Pastry Cream** • Basic Pastry Cream • Use in Confectionery • Preparation and Care in Production 14.3 **Cocoa and Chocolate** • Introduction, Production and Manufacture • Varieties of Chocolates • Tempering of Chocolates	**04. HRS** **03.HRS** **03.HRS**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

SIGNATURE OF THE STAFF

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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.** DEPARTMENT: **Room Division Management-II.**

CLASS: **F.Y.BSc.HS.** SEMESTER: **I.**

MONTH: **Academic Year 2022-2023.** SUBJECT: **Housekeeping.**

LEARNING OBJECTIVE:

The student will be able to identify the role of the housekeeping department and explain its organization structure and importance.
The student will be able to list the basic cleaning equipment's, cleaning agents and explain their use.
Will be able to perform basic cleaning procedures of various surfaces.

The learners will be able to understand organization structure, types of cleaning equipment and agent and surface.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. INTRODUCTION TO HOUSE KEEPING DEPARTMENT	15	Hotel Housekeeping Operations and Management (G. Raghubalan & Smritee Raghubalan – Oxford University Press).	1. PPT 2. VIDEO
II	1. ORGANIZATION OF HOUSEKEEPING DEPARTMENT	09		1. PPT
	2. CLEANING EQUIPMENT	06	Professional Management of Housekeeping Operations – (Thomas J. A. Jones – John Wiley & Sons)	1. PPT 2. VIDEO
III	1. CLEANING AGENTS	08		1. PPT 2. VIDEO
	2. CLEANING & POLISHING OF DIFFERENT SURFACES	07		1. PPT 2. VIDEO

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.

Dipti D Khadpe

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.** DEPARTMENT: **Room Division Management-II.**

CLASS: **S.Y.BSc.HS.** SEMESTER: **III.**

MONTH: **Academic Year 2022-2023.** SUBJECT: **Housekeeping.**

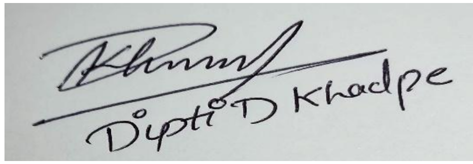
LEARNING OBJECTIVE:
The student will be able to explain various operational procedures and formats pertaining to linen, uniforms, and laundry.
The student will be able to create formats and design layouts of linen room, uniform room and laundry.
The student will be able to create Flower Arrangements for various occasions and locations.
The student will be able to plan and implement décor for special occasions.

The learners will be able to understand how to handle different fabrics, Flower arrangement & implement décor for special occasions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. LINEN ROOM OPERATIONS	10	Hotel Housekeeping Operations and Management (G. Raghubalan & Smritee Raghubalan – Oxford University Press).	1. PPT 2. VIDEO
	2. FORMATS	05		1. PPT
II	1. UNIFORM AND SEWING ROOM	05	Textile and Laundry in Hotel Industry – (Dr. D.K.Agrawal - Aman Publications). Stain Removal – (Stephanie Zia – Bounty Books).	1. PPT

	2. LAUNDRY OPERATIONS	10		
III	1. FLOWER ARRANGEMENT	10	The Art of Flower Arranging – (Ian Hall & Sarah Waterkeyn - Smithmark Publications).	1. PPT 2. VIDEO
	2. ERONOMICS IN HOUSEKEEPING	05	Professional Management of Housekeeping Operations – Thomas J. A. Jones – John Wiley & Sons	1. PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.



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DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.** DEPARTMENT: **Room Division Management-II.**

CLASS: **F.Y.BSc.HS.** SEMESTER: **II.**

MONTH: **Academic Year 2022-2023 (December-March)** SUBJECT: **Housekeeping.**

LEARNING OBJECTIVE:
The learners will be able to:

The student will be able to identify the which are the different area in hotels which are cleaned by housekeeping department.
The students will be got to know different types of services and amenities offered by housekeeping.
This semester students will learned about different format used by housekeeping in day-day to operations.
Students will learned about how to handle maids trolley.
The students will be learned about how to handle lost and found, key and control and pest control.
In this semester they will learn how to handle any situation.
The learners will be able to understand organization structure, types of cleaning equipment and agent and surface.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. CLEANING OF DIFFERENT AREAS	**15**	Hotel Hostel and Hospital Housekeeping – Joan Branson & Margaret Lennox	**1. PPT**
II	1. TYPES OF ROOM SERVICES	**03**	Housekeeping Management – Margaret Kappa, Aleta Nitschken, Patricia B. Schappert – A.H. & L.A.	**1. VIDEO** **2. PPT**
	2. MAIDS SERVICE ROOM / HOUSE KEEPING PANTRY	**04**		**1.VIDEO** **2. PPT**
	3. GUEST ROOM SUPPLIES & AMENITIES	**04**		**1. VIDEO** **2. PPT**

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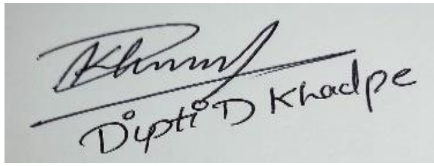
	4. FORMATS USED IN THE HOUSEKEEPING DEPARTMENT	**04**		**1. PPT**
III	1. LOST & FOUND	**04**	Housekeeping Operations, Design and Management – Malini Singh & Jaya B. George – Jaico Publications	**1.VIDEO** **2. PPT**
	2. KEY & KEY CONTROLS	**02**		**1.VIDEO** **2. PPT**
	3. SITUATION HANDLING	**06**		**1.VIDEO**
	4. PEST CONTROL	**03**		**1. VIDEO** **2. PPT**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	5 Parts of Computer • Difference between Hardware & Software • Difference Between Data and Information • Types of Computers – Server (Types), Clients (Types of Portable Computer) • Application Software • System Software • Software Copyright – Freeware, Shareware, Licensed	2		Google classroom White board Quiz Google slide Jam board
	Application Software – Word Processor, Spreadsheet, Database Management, Presentation, Media, Outlook, Browser and Utility Software like Acrobat Reader • System Software – Operating System (Windows, Linux, Android) • Device Driver • Utility Software – VLC Player, File Converter	3		Google classroom White board Quiz Google slide Jam board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	**Hardware** • Introduction of Central Processing Unit • Processor – Intel, AMD, Clock Speed • Input Devices – Keyboard, Mouse, Mic, Scanner, Barcode Reader, RFID, Touch Screen • Output Devices – Displays (CRT, TFT, LCD, Plasma, LED, Projector) • Display Resolution • Printers – Inkjet, Laser, Thermal • Storage Devices – Primary (RAM & ROM), Secondary (HDD, Flash Drive, USB, CD/DVD, Blue Ray, Media Players)	3		Google classroom White board Quiz Google slide Jam board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	Networking • Types of Network (LAN, WAN, MAN) • Topology (Bus, Star, Ring, Mesh & Tree) • Network Hardware – (Cables – RJ45, RJ11, MTRJ, Switch, Routers, Access Point, Modem) • IP and MAC Address, Subnet, Gateway, DNS • Understanding Network Address & Node Address • Network Security – Firewalls (Hardware & Software) • Bandwidth	4		Google classroom White board Quiz Google slide Jam board
	Internet • Intranet, Internet & Extranet • WWW, HTTP, Domains • VPN & VoIP • Search Engines • ISP & Bandwidth	3		

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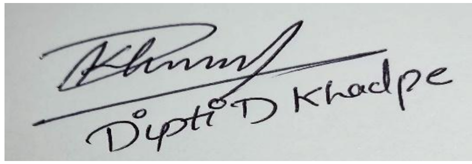
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio D'souza** DEPARTMENT:HOTEL MANAGEMENT CLASS: T.Y.H.S SEMESTER: VI

MONTH:NOVEMBER TO APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: The objective of Organizational Behaviour is to provide students with the opportunity to diagnose Individual and Group Behaviour. · The study of Structure, Motivation & Change helps to develop skills in improving individual and group performance in entrepreneurial and established ventures. · To develop the overall personality and sustain in the dynamic environment

The learners will be able to: .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	**Introduction to Organizational Behaviour** **1.1 Definition of Organizational Behaviour** **1.2 What Managers Do** 1.2.1 Management Functions 1.2.2 Management Roles 1.2.3 Management Skills 1.2.4 Effective v/s Successful Managerial activities **1.3 Disciplines that contribute to the Organizational Behaviour field** **1.4 Individual Behaviour** 1.4.1 Ability 1.4.2 Biographical characteristics 1.4.3 Learning & Process of Learning 1.4.4 Introduction & Importance to Perception, Values & Attitude 1.4.5 Personality & Its Determinants **1.5 Group Behaviour** 1.5.1 Types of Groups	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard • PPT

	1.5.2 The Five stage model (Group Dynamics / Development)			
	Organizational Structure 2.1 What is Organizational Structure 2.1.1 Six Elements of organizational structure 2.2 Organizational Designs 2.2.1 Common Organizational Designs (Simple, Bureaucratic, Matrix)			
	Motivational Concepts 3.1 Define Motivation 3.2 Early Theories of Motivation 3.2.1 Maslow Abraham's Hierarchy of Needs theory 3.2.2 Douglas McGregor's Theory X & Theory Y 3.2.3 Fredrick Herzberg's Two Factor Theory 3.2.4 Mc Cleland's Theory of Needs 3.3 Contemporary Theories of Motivation 3.3.1 Cognitive Evaluation Theory (Definition) 3.3.2 Goal setting Theory (Definition) 3.3.3 Self Efficacy Theory (Definition) 3.3.4 Reinforcement Theory (Definition) 3.3.5 Equity Theory (Definition) 3.3.6 Expectancy Theory (Definition) 3.4 Leadership & Types of Leadership 2.2.2 New Design options (Virtual, Team, Boundaryless)	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Stress Management 4.1 What is Stress? 4.2 Potential Sources of stress			

	4.3 Consequences of Stress 4.4 Managing stress 4.5 Introduction to Quality of Work Life			
	Organizational Change 5.1 What is change? 5.2 Elements / Factors of Change (External & Internal) 5.3 Planned Change 5.4 Resistance to change 5.5 Overcoming Resistance to Change 5.6 Approaches to Managing Organizational change 5.6.1 Lewin's 3 step model 5.6.2 Action Research 5.6.3 Meaning of Organizational Development & Techniques / Intervention 5.7 Introduction to Diversity & Managing Diversity	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Conflict Management 6.1 Definition of Conflict 6.2 Sources & Types of Conflict 6.3 Conflict Management Styles 6.4 Power and Politics 6.4.1 Concept & Basis of Power 6.4.2 Organization Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pratyasha Pattnaik** DEPARTMENT: Principle of Management – Hotel Management CLASS: FY BSc HS

SEMESTER: II

MONTH: November to March ACADEMIC YEAR: **2022 -2023**

LEARNING OBJECTIVE: To learn about the emerging Indian corporate world and global phenomenon with stress upon hospitality Industry.

The learners will be able to:

- To train the student as future managers and make them understand the working of an organisation.
- Teaching through PowerPoint presentations, case studies, activities, brain storming sessions, SWOT/PEST analysis etc.
- Trying to bridge the gap between management studies and real corporate world through real time stories from newspapers, journals and business magazines, books.
- Encouraging students to read more so as to refine their analytical power and sharpen business sense and become more aware of the business environment.
- Opportunity to participate in business discussions, article/book reviews and presentations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	1. INTRODUCTION TO MANAGEMENT 1.1 Evolution of management 1.2 Definitions and Importance of Management 1.3 Management as a Science and Art 1.4 Principles of Management (14 principles of Fayol)	15	Principle of Management – P C Tripathi & Reddy Harold Koontz – Principle of Management	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word

	1.5 Levels of Management and their functions 1.6 Managerial skills 1.7 Functions of Management 1.8 Process of communication 1.9 Business communication 2. PLANNING 2.1 Definition and Characteristics 2.2 Planning Process (Steps in Planning) 2.3 Essentials of a Good Plan 2.4 Vision and mission Statements 2.5 Planning with relation to hospitality industry 2.6 Meaning and Process of MBO 2.7 Meaning and steps in Decision Making			7. White Board 8. Projector 9. Discussion
	3. ORGANIZING 3.1 Meaning and Process of Organizing 3.2 Formal and Informal Organization and Distinction 3.3 Span of control (Meaning and Importance) 3.4 Tall and Flat Organization 3.5 Definition and Process of Delegation 3.6 Centralization and Decentralization of Authority 3.7 Departmentation and Basis of Departmentation 3.8 Organisation chart 3.9 Closed vs open system of organisation 3.10 Line and Staff organization	15	Management Principles and Practices – Dr.M.Sakthivel Murugan	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

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	4. STAFFING AND COORDINATION 4.1 Meaning and Imporance of Staffing 4.2 Internal and External Sources of Recruitment 4.3 Coordination - As an essence of Management 4.4 Principles of Coordination			
	5. DIRECTING, MOTIVATING AND LEADING 5.1 Meaning and importance of Directing 5.2 Element of Directions / Components 5.3 Definition of Motivation and factors 5.4 Maslow's Need Hierarchy Theory 5.5 Mc Gregor's Theory X and Theroy Y 5.6 Definition of Leadership and Leader 5.7 Qualities of a Leader 5.8 Leadership Styles 5.9 Leaders from hospitality industry 5.10 Leadership theory 6. CONTROLLING 6.1 Meaning 6.2 Steps in Control process 6.3 Types of control:feed forward,feedback,concurrent 6.4 Time Management	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: T.Y. BSc (IT) DIV-C SEMESTER:SEM -5 MONTH: JUL-OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand what is a The Internet of Things and its applications .
- Introduction of Prototyping the Physical Design and online design.
- Understand different techniques of Prototyping.
- Learn the concept of automation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT502 Internet Of Things UNIT 1	**The Internet of Things:** An Overview: The Flavour of the Internet of Things, The “Internet” of “Things”, The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things?	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	Laptop, power point, jamboard
	Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data Is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Graceful Degradation, Affordances.	4		

	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses,	4		
	DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS: Encrypted HTTP, Other Application Layer Protocols.			
USIT502 Internet Of Things UNIT 2	**Thinking About Prototyping**: Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation	4	1.Designing the Internetof Things Adrian McEwen, Hakim Cassimally WILEY First 2014 , 2.Internet of Things – Architecture and Design Raj Kamal McGraw Hill First 201	Laptop, power point, jamboard
	Climbing into the Cloud Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community	4		

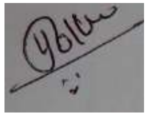
	Prototyping Embedded Devices: Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chips, Choosing Your Platform, Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness	4		
USIT502 Internet Of Things	**Prototyping the Physical Design:** Preparation, Sketch, Iterate, and Explore, Nondigital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling.	5	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	

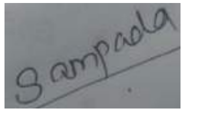
UNIT 3	**Prototyping Online Components**: Getting Started with an API, Mashing Up APIs, Scraping, Legalities, writing a New API, Clockodillo, Security, implementing the API, Using Curl to Test, Going Further	3		Laptop, power point, jamboard
	Real-Time Reactions, Polling, Comet, Other Protocols, MQ Telemetry Transport, Extensible Messaging and Presence Protocol, Constrained Application Protocol.	4		

USIT502	**Techniques for Writing Embedded Code:** Memory Management,Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries,Debugging.	5	Designing the Internet of Things Adrian McEwen, Hakim Cassimally WILEY First 2014	
Internet Of Things UNIT 4	**Business Models:** A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models	3		Laptop, power point, jamboard
	Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, take a Percentage, Funding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Lean Startups.	4		
USIT502	**Moving to Manufacture:** What Are You Producing? Designing Kits, Designing Printed circuit boards, Software Choices, The Design	5	1.DesigningtheInternetof Things Adrian McEwen, Hakim Cassimally WILEY First 2014 ,	

Internet Of Things UNIT 5	Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards. Assembly, Testing, Mass-Producing the Case and Other Fixtures.		2.Getting Started with Raspberry Pi Matt Richardson and Shawn Wallace SPD Third 2016	Laptop, power point, jamboard
	Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Community.	3		
	Ethics: Characterizing the Internet of Things, Privacy, Control, Disrupting Control, Crowdsourcing, Environment, Physical Thing, Electronics, Internet Service, Solutions, The Internet of Things as Part of the Solution, Cautious Optimism, The Open Internet of Things Definition	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: SY BSc IT. DIV-C SEMESTER: SEM 3 MONTH:JUNE-SEPT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

1. To have a broad understanding of database concepts and database management system software
2. To have a high-level understanding of major DBMS components and their function
3. To be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
4. To be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.
5. To be able to program a data-intensive application using DBMS APIs.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 DBMS UNIT 1	Introduction to Databases and Transactions What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management.	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Data Models The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction.	4		
	Database Design, ER Diagram and Unified Modelling Language Database design and ER Model: overview, ER Model, Constraints, ER Diagrams, ERD Issues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML	4		
	Relational database model: Logical view of data, keys, integrity rules,	2		POWER POINT PRESENTATION

UNIT 2	Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF).	3	DATABASE SYSTEM AND CONCEPTS BY H KORTH	
	Relational Algebra and Calculus Relational algebra: introduction, Selection and projection, set operations, renaming, Joins, Division, syntax, semantics	3		
	Operators, grouping and ungrouping, relational comparison	2		
	Calculus: Tuple relational calculus, Domain relational Calculus, calculus vs algebra, computational capabilities	2		
UNIT 3	Constraints, Views and SQL Constraints, types of constrains, Integrity constraints,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Views: Introduction to views, data independence, security, updates on views, comparison between tables and views	4		
	SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers	4		
UNIT 4	Transaction management and Concurrency Control Transaction management: ACID properties, serializability and concurrency control,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	POWER POINT PRESENTATION
	Lock based concurrency control (2PL, Deadlocks),Time stamping methods,	4		
	Optimistic methods, database recovery management.	4		
UNIT 5	PL-SQL: Beginning with PL / SQL, Identifiers and Keywords, Operators, Expressions, Sequences	4	PROGRAMMING WITH PL/SQL FOR BEGINNERS BY H. DAND,R. PATIL	POWER POINT PRESENTATION
	,Control Structures, Cursors and Transaction,	4		
	Collections and composite data types, Procedures and Functions, Exceptions Handling, Packages with Clause and Hierarchical Retrieval, Triggers.	4		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:____AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3				
	Technique of counting- Introduction, Basic counting principle, Mathematical functions,Permutation and combination, the Piegeo hole principle ,The inclusion exclusion principle, Tree diagram Advance Counting Technique, Recursion Introduction, Combination with reputation, ordered and un ordered partitions inclusion exclusion 4revisited pigeonhole principle revisited ,Recurrence Relation ,Linear Recurrence relation with constant coefficients, solving second order homogenous linear Recurrence, relation, solving general homogenous linear Recurrence relation	12	Discrete Mathematics	Blackboard and chalk

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashwant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik | DEPARTMENT: Mathematics | CLASS: FYIT (A,B,C)

SEMESTER: I | MONTH: July-November | ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTATIONAL LOGIC AND DISCRETE STRUCTURES	**Binary Trees**: Introduction, Binary trees, Complete and Extended binary trees, Representing binary trees in memory, Traversing binary trees, Binary Search Trees, Heaps, Huffman's algorithm.	06	Discrete Mathematics and It's Applications	Chalk and board
UNIT V	**Ordered Sets and Lattices:** Introduction, Ordered sets, Hasse diagram of Partially Ordered Sets, Supremum and Infimum, Isomorphic (similar) Ordered Sets, Well Ordered Sets, Lattices, Bounded Lattices, Distributive Lattices, Complements, Complemented Lattices	06	Discrete Mathematics and It's Applications	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

K. Naik

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONALI DATTTARAY SALVANIKAR DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database.
- Remove redundant data by normalization.
- Understand basic database storage structures and access techniques and database recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit I	Database system- concept and Architecture: DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	05	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board and Chalk
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	04		
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	03		

Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	02		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		
Fundamentals of Database Management Systems (USIT103) Unit IV	Introduction to SQL: SQL introduction, datatypes, DDL-create,alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	04	SQL Complete Reference by James Groff	Black Board and Chalk
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multitable queries consideration	05		
	Query Processing and optimization. File structure, Hashing and Indexing	03		

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Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	05	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, Database Management System by Ramakrishnan	Black Board and Chalk
	Concurrency control technique.	03		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Sonali

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Vartak DEPARTMENT: IT

CLASS: FYIT DIV A SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

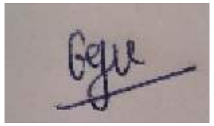
LEARNING OBJECTIVES:

- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

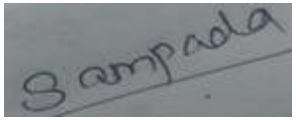
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		
	Boolean algebra and Gate level minimization:	12	Digital Logic Design Sonali Singh	Black Board and Chalk

Digital Logic and Applications (USIT102) Unit II	Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions		BPB publications.	
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk,Projector
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth’s multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF



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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT:CS

CLASS:FYIT-DIV A SEMESTER: SEM-1 MONTH: SEP-NOV ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, TITLE, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 1, Programming Principles with C, UNIT 1	**Introduction**: Algorithms, History of C, Structure of C Program. Program Characteristics, Compiler, Linker and preprocessor, pseudo code statements and flowchart symbols, Desirable program characteristics. Program structure.	6	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	Compilation and Execution of a Program, C Character Set, identifiers and keywords, data types and sizes , constants and its types, variables, Character and character strings, typedef, typecasting	6		
UNIT 2	**Type of operators**: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators, the conditional operator, Assignment operators and expression, Precedence and order of Evaluation	5	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by	CHALK AND BOARD

	Block Structure, Initialization, C Preprocessor	1	E.Balagurusamy	
	Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops-While and For LoopsDo-while, Break and Continue, Goto and Labels	6		
Unit 3	**Functions and Program Structure**: Basics of functions. User defined and Library functions, Function parameters, Return values, Recursion	6	Let us c-by Yashwant kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	External variables, Scope Rules, Standard Input and Output, Formatted Output-printf() and Formatted Input- scanf(), Line Input and Output, Error Handling- StdErr and Exit, Header Files	6		
UNIT 4	**Pointer and Arrays** Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays, Address Arithmetic, Character Pointers and Functions,.	6	Let us c-by Yashwant Kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	Pointer Arrays: Pointers and Functions, Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	6		
Unit 5	**Structures**: Basics of structures, Structures and Functions, Arrays of Structures, Pointers to Structures, Unions, Bit-fields,	6	Let us c-by Yashwant kanetkar/Programming in ANSI C-by E.Balagurusamy	CHALK AND BOARD
	File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error handling in C, Random access to files, Command line arguments.	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: IT

CLASS: FYIT DIV A SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVES:

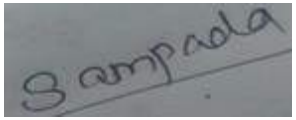
- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		
Technical	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity, Courtesy,	03	Business Communication	Black Board and Chalk

Communication Skills (USIT105) Unit II	Correctness.		Meenakshi Raman &Prakash singh.	
	Conversations :Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	01		
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	02		
Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	05	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	04		
	Interview Introduction, objectives, types of interview, job interviews	03		
Technical Communication Skills (USIT105)	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business Communication by Tata McGraw Hill	Black Board and Chalk
	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03		
Unit IV	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		

	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT

CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-

2022 LEARNING OBJECTIVE/S:

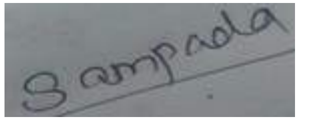
- To develop the logical ability of the student.
- Basic concepts to be cleared using suitable examples.
- Different approach towards the problem.
- To handle the errors and find suitable solution.
- Debugging the code.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Programming Principles with C (USIT101) Unit III	**Functions and Program Structure**: Basics of functions. User defined and Library functions, Function parameters, Return values, Recursion External variables, Scope Rules, Standard Input and Output, Formatted Output-printf() and Formatted Input- scanf(), Line Input and Output, Error Handling- StdErr and Exit, Header Files	12	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk

Programming Principles with C (USIT101)	**Structures**: Basics of structures, Structures and Functions, Arrays of Structures, Pointers to Structures, Unions, Bit-fields, File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error	12	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk

Unit IV	handling in C, Random access to files, Command line arguments.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT
CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-

23 LEARNING OBJECTIVE/S:

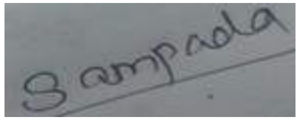
- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database application scenarios.
- Improve the database design by normalization.
- Understand basic database storage structures and access techniques: file and page organizations, indexing methods and hashing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	03	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	03		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		

Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	04	Database Systems: Design implementation and management By Carlos Coronel.	Black Board and Chalk
	Concurrency control technique.	04		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF



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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: FYIT DIV B SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		
	Boolean algebra and Gate level minimization:	12	Digital Logic Design Sonali Singh	Black Board and Chalk

Digital Logic and Applications (USIT102) Unit II	Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions		BPB publications.	
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk,Projector
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS:FYIT-DIV B SEMESTER: SEM-1 MONTH: AUG-NOV ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 IP UNIT 1	**Introduction: Algorithms, History of C, Structure of C Program. Program Characteristics, Compiler, Linker and preprocessor, pseudo code statements and flowchart symbols, Desirable program characteristics. Program structure. Compilation and Execution of a Program, C Character Set, identifiers and keywords, data types and sizes , constants and its types, variables, Character and character strings, typedef, typecasting**	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK

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Vidhya Dayanand Patil College of Arts
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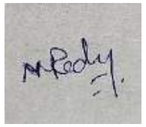
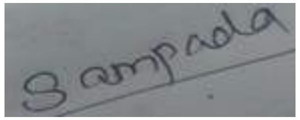
UNIT 2	Type of operators: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators, the conditional operator, Assignment operators and expression, Precedence and order of Evaluation Block Structure, Initialization, C Preprocessor Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops- While and For Loops- Do-while, Break and Continue, Goto and Labels	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK
UNIT 4	Pointer and Arrays Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays, Address Arithmetic, Character Pointers and Functions, Pointer Arrays: Pointers and Functions, Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	12	Let us c-by Yashwant Kanetkar	BLACK BOARD AND CHALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 33





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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: F. Y. B. Sc. IT –B SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Define and describe the fundamental elements of relational database management system.
b. Transform the ER-model to relational tables, populate relational database and formulate SQL queries on data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Fundamentals of Database Management Systems Unit -I	**Database system- concept and Architecture:** DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	6	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	3		Black Board
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	3		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: F. Y. B. Sc. IT –B SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Define and describe the fundamental elements of relational database management system.
b. Transform the ER-model to relational tables, populate relational database and formulate SQL queries on data.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-III Fundamentals of Database Management Systems Unit -IV	Introduction to SQL: SQL introduction, datatypes, DDL-create, alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	4	SQL Complete Reference by James Groff	Black Board
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multi-table queries consideration	4		Black Board
	Query Processing and optimization. File structure, hashing and indexing	4		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

Sampada

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AVINASH DILIP SONAWANE. DEPARTMENT: IT

CLASS: FYIT DIV B SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		
Technical Communication	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity,	03	Business Communication	Black Board and Chalk

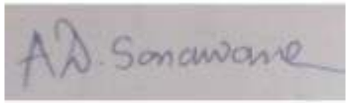
	Courtesy, Correctness.			

Skills (USIT105) Unit II			Meenakshi Raman &Prakash singh.	
	Conversations :Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	01		
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	02		
Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	05	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	04		
	Interview Introduction, objectives, types of interview, job interviews	03		
Technical Communication	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business	

Skills (USIT105)	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03	Communication by Tata McGraw Hill	Black Board and Chalk

Unit IV	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		
	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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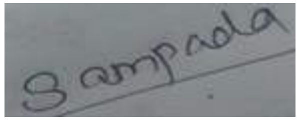

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: IT

CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- To develop the logical ability of the student.
- Basic concepts to be cleared using suitable examples.
- Different approach towards the problem.
- To handle the errors and find suitable solution.
- Debugging the code.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Programming Principles with C (USIT101) Unit II	Type of operators: Arithmetic operators, relational and logical operators, Increment and Decrement operators, assignment operators	04	Programming with c Byron Gottfried Tata McGRAWHill 1996	Black board and chalk
	The conditional operator, Assignment operators and expression, Precedence and order of Evaluation Block Structure, Initialization, C Preprocessor	04		
	Control Flow: Statements and Blocks, If-Else, Else-If, Switch, Loops- While and For LoopsDo-while, Break and Continue, Goto and Labels	04		

Programming Principles with C (USIT101) Unit IV	Pointer and Arrays Pointer and Addresses, Pointer and Function Arguments, Pointer and Arrays	04	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk
	Address Arithmetic, Character Pointers and Functions, Pointer Arrays: Pointers and Functions,	04		
	Multidimensional Array, Command-line Arguments, Pointers to Functions, Dynamic memory allocation	04		
Programming Principles with C (USIT101) Unit V	Structures: Basics of structures, Structures and Functions, Arrays of Structures	04	Let us C Yashwant P. Kanetkar BPB publication	Black board and chalk
	Pointers to Structures, Unions, Bit-fields	04		
	File management in C: Defining and Opening file, Closing a file, Input / Output operations on file, Error handling in C, Random access to files, Command line arguments.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: IT
CLASS: FYIT DIV C SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Define and describe the fundamental elements of relational database management system.
- Design ER-models to represent simple database.
- Remove redundant data by normalization.
- Understand basic database storage structures and access techniques and database recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Database Management Systems (USIT103) Unit I	Database system- concept and Architecture: DBMS, its need, applications, components of DBMS, DBA, Database users, transaction management, database system architecture- 2 tier, 3 tier.	06	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan	Black Board and Chalk
	Relational model and Relational database constraints: Domain, tuples, Primary key, Foreign Key, Candidate Key, Super Key, Alternate Key	03		
	Relational Algebra: Selection, Projection, Minus, Cross Join, Union, Intersection, Natural Join, Full Outer Join, Left Outer Join	03		

Fundamentals of Database Management Systems (USIT103) Unit II	Conceptual modelling and database design: Data modelling using the Entity Relationship model (ER).	03	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	The enhanced entity relationship model.	03		
	Relational database design by ER and EER model.	03		
	Database design methodology and use of UML Diagram.	03		
Fundamentals of Database Management Systems (USIT103) Unit III	Database Design theory and normalization.	04	Fundamentals of Database systems by Shamkant B Navathe.	Black Board and Chalk
	Basics of functional dependencies and normalization for relational databases.	04		
	Relational database design and further dependencies.	04		
Fundamentals of Database Management Systems (USIT103) Unit IV	Introduction to SQL: SQL introduction, datatypes, DDL-create,alter(schema modification), drop, DML-insert, update, delete, DQL-select-from clause, where clause-search conditions, order by clause, group by clause, having clause,	04	SQL Complete Reference by James Groff	Black Board and Chalk
	Complex queries-search conditions-comparison, IN, Exists, triggers-insert, update, views-create, update, drop, joining database tables- equi, non-equi, inner join, outer join, multitable queries consideration	04		
	Query Processing and optimization. File structure, Hashing and Indexing	O4		

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Fundamentals of Database Management Systems (USIT103) Unit V	Transaction management and concurrency control and recovery: Introduction to transaction processing concepts and theory.	04	Database System Concepts by Abraham Silberschatz, Henry F. Korth, S. Sudarshan, Database Management System by Ramakrishnan	Black Board and Chalk
	Concurrency control technique.	04		
	Database recovery technique.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYIT DIV C SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

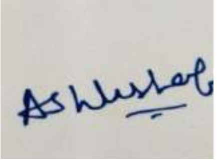
LEARNING OBJECTIVES:

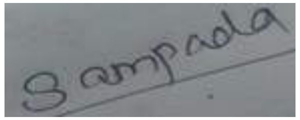
- To understand and assess number systems and the conversions of number systems
- To learn the basics of logic in digital electronics.
- To learn basic logic gates.
- To analyze the boolean expressions and reduce the expression to the minimum.
- To design simple logic circuits using tools such as Boolean Algebra and Karnaugh Mapping.
- To learn the state of a memory cell and its types using flip-flops.
- To create simple digital systems using counters, registers etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Digital Logic and Applications (USIT102) Unit I	Digital Systems and Binary numbers: Introduction to Number systems, Positional Number systems, Conversions (converting between bases), Non positional number systems, Unsigned and Signed binary numbers, Binary Codes, Number representation and storage in computer system.	08	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
	Logic gates and Logic Circuits: Basic and Universal Gates	04		

Digital Logic and Applications (USIT102) Unit II	Boolean algebra and Gate level minimization: Introduction, Postulates of Boolean Algebra, Two Valued Boolean Algebra, Principle of Duality, Basic Theorems of Boolean Algebra, Boolean Functions and their Representation, Gate-Level Minimization (Simplification of Boolean Function), QuineMcCluskey Method, Review questions	12	Digital Logic Design Sonali Singh BPB publications.	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit III	Combinational logic: Introduction, Analysis and Design Procedure for Combinational Logic Circuits, Types of Combinational Circuit, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit IV	Sequential circuits: Introduction, Latch, Flip-Flops, Registers, Counters, Review Questions	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk
Digital Logic and Applications (USIT102) Unit V	Applications: Bit Arithmetic and Logic unit, Carry lookahead generator, Binary Multiplication and Division algorithm, Booth's multiplication algorithm	12	Digital Logic Design Sonali Singh BPB publications	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT:IT CLASS:FYIT-DIV C SEMESTER: SEM-1

MONTH: August to November ACADEMIC YEAR: 2022-2023

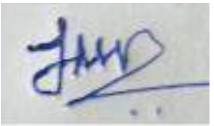
LEARNING OBJECTIVE/S:

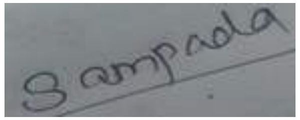
The learners will be able to: develop logics which will help them to create programs, applications in C. Also by learning the basic programming constructs they can easily switch over to any other language in future.

PAPER, TITLE, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 1 Programming Principles With C, UNIT 1	**Introduction**: Algorithms, flowcharts Types of Programming languages, History, features and application. Simple program logic, program development cycle.	3	Let us c-by Yashwant Kanetkar	Black Board, Chalk, PPT
	pseudocode statements and flowchart symbols, sentinel value to end a program, programming and user environments, evolution of programming models., desirable program characteristics	3		
	Structure of a program. Compilation and Execution of a Program,Character Set, identifiers and keywords, data types	3		
	constants, variables and arrays, declarations, expressions, statements, Variable definition, Constants and its types, Character and character Strings, typedef, typecasting	3		

Unit 3	**Functions:** Overview, Basic of Functon, defining a function, accessing a function, passing arguments to a function, specifying argument data types, function prototypes, recursion, modular programming and functions, standard library of c functions	5	Let us c-by Yashwant kanetkar	Black Board, Chalk, PPT
	prototype of a function: foo1lal parameter list, return type,function call, block structure, passing arguments to a function: call by reference,call by value. Standard input and output	4		
	Line Input and Output, Error Handling- Std Error and Exit, Header Files.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT

CLASS: FYIT SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-

23 LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit II	The Seven Cs of Effective Communication: Completeness, Conciseness, Consideration, Concreteness, Clarity, Courtesy, Correctness. Conversations Introduction, Importance of Business conversion, Essential of Business conversion, Conversation Management	03	Business Communication Meenakshi Raman &Prakash singh.	Black Board and Chalk
	Meeting and conferences Introduction, Purpose of Meeting, planning a meeting, Meeting Process, Leading effective meeting, Evaluating meeting, planning conference, teleconferencing	03		
	Group Discussion and team presentation Introduction, Benefits of GD, Workplace GD guidelines, Functional and non functional roles in GD, Improving group performance, Assessment of group discussion ,Team presentation	03		
	Email communication Introduction, Advantages of email, problems in email communication, Email etiquettes, Techniques of writing Effective Email	03		

Technical Communication Skills (USIT105) Unit IV	Business writing Introduction, Importance of written Business, Five main strategies of writing business messages.	03	Effective Business Communication by Tata McGraw Hill	Black Board and Chalk
	Business correspondence Business letter writing, common component of Business letter, Strategies for writing body of a letter, Types of Business letter, writing memos.	03		
	Business reports and proposal What is report? Steps in writing routine Business report, parts of report, corporate reports and Business proposals.	03		
	Careers and Resume Introduction to career building, resume format, traditional, electronic and video resumes, sending resume, follow up letters and online recruitment process.	03		
Technical Communication Skills (USIT105) Unit V	Communication across Functional areas Financial communication, MIS.	04	Professional Communication By Aruna Koneru.	Black Board and Chalk
	Ethics in Business Communication Ethical communication, Values, ethics and communication, ethical dilemmas facing manager, strategic approaches to corporate ethics	04		
	Creating and Using Visual Aids Object, Models, Handouts, Charts and Graphs, Text Visuals , Formatting Computer generated charts, graphs and visuals	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI
DEPARTMENT: CS
CLASS: FYIT DIV: C SEMESTER: I
MONTH: SEPTEMBER TO NOVEMBER
ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVES:

- To communicate effectively with a range of audiences both technical and non-technical.
- To understand the dynamics in different forms of formal communication.
- To learn the art of business writing and ethics in business communication across functional areas.
- To evaluate, analyze and interpret technical data.
- Understand and apply the art of written communication in writing reports, proposals.
- Understand the functions of graphs, maps, charts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Technical Communication Skills (USIT105) Unit I	Fundamentals of Technical Communication Introduction, The process of communication, Language as tool of communication, levels of communication, The flow of communication, Communication Networks, The importance of technical communication	05	Technical communication : principles and practices By Meenakshi Raman & Sangeeta Sharma	Black Board and Chalk
	Barriers to communication Definition of Noise, classification of Barriers	03		
	Non-verbal Communication Introduction, Definition, significance of nonverbal, forms of non -verbal communication, types of non-verbal communication	04		

Technical Communication Skills (USIT105) Unit III	Active Listening Introduction, Type of listening, Traits of good listener, Active vs Passive listening, Implication of effective listening	04	Business Communication Meenakshi Raman &Prakash singh	Black Board and Chalk
	Effective presentation Strategies Introduction, Defining purpose, Analyzing audience and Locale, Organizing contents, preparing outline, Visual Aids, Understanding Nuances of delivery, Kinesics	05		
	Interview Introduction, objectives, types of interview, job interviews	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:___AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	FUNCTIONS AND ALGORITHMS-Introduction, One to one function, onto function, invertible function, Exponential function, Logarithmic function,			
	Sequence, Indexed classes of sets ,Recursively defined function, Cardinality,Algorithms and function, Complexity of Algorithms PROBABLITY:- Introduction, sample space and events ,finite probability spaces, Conditional Probability, Independent Events, Independent Repeat Trial ,Binomial Distribution, Random variables, Chebyshevs Inequality, Low of large number	12	Discrete Mathematics	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT

12NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _I MONTH:____AUG TO OCTOMBER_

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Graph Theory- Introduction, Data structure, Graph and multi graph,subgroup, Isomorphic Graph, Bridges of konigsbergs,Labeled and weighted graphs, Complete graphs, regular and biparatite graph, tree graph, planner graphs, graph coloring,graph algorithm, Traveling salesman problems solved problem DIRECTED GRAPHS Inttrroduction ,Directed graph, Basic definition rooted Trees, sequential representation of Directed graph, wRshall’s algorithm shortest path,linked representation of directed graphs,Depth first and breath first searches,directed cycle free graphs ,Topological sort,pruning Algorithms for shortest path	12	Discrete Mathematics	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)___CLASS: FYIT SEMESTER: _II MONTH:____FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Numerical solution of 1st and 2nd order differential equations- Taylor series, Euler's simple formula Modified Euler's Method R-K seconds and fourth order. Least square Regression- Linear Regression, Polynomial Regression, Multilinear Regression, Nonlinear Regression, General Linear Least Squares Method	12	Numerical Techniques-R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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YIT SEM-III SUB-APPLIED MATHS-II DIV A

PROF –ARCHANA MALPATHAK

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak DEPARTMENT:Mathematics CLASS: SYIT SEMESTER: III MONTH: Aug to Nov ACADEMIC YEAR: 2022-2023 LEARNING OBJECTIVE/S

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Applied Maths II Unit-I Matrices and Complex Number	Matrices : Inverse,properties,Rank by Normal and Echelon form,Linearequations,Linear dependent and independent Linear transformation,ch roots and ch vectors Caley Hamiltonian theroem,Similarity of matrix,Digonal matrix Complex number - complex number equality of complex numberArgand digram,polar form and exponential of complex numberHyperbolic and Logarithmic function of complex number	12	Applied Maths by G.V.Kumbojkar Higher Engineering of mathematics TechMax	Black board and chalk

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak. DEPARTMENT: Mathematics CLASS: SYIT SEMESTER: II
MONTH: Aug to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :____Variable separable,subtitutionmethod,Homogenous,Non homogeneous, Exavt differential equation,Non exact fifgerential equation, Integrating factor ,bernoullis differential,higher order differential equation solvable for Y,P,X .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Applied Maths -II UNIT -II Differential equations	1) Equation of the first order and first degree :Sepratation of variables,Equation homogenous in x and y ,Non homogenous,Exactdifferential, 2)Integrating factor,Bernouils Equation ,Subtitution method general method,other methods 3)Diff equ of higher degree - Solvable for p, for X ,for YClairauts form of equationMethod of sepration, 4)Linear differential with constant coefficients - Differential operator,f(D)=0.f(D)=x ,1/f(D),1/f(D) X	3+3+3+3 =12	G.v.kumbojkar Higher Engineering of mathematics Balguru swami TechMax R.M.Baphna	Blackboard ,chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak. DEPARTMENT: Mathematics. CLASS: SYIT.

SEMESTER: III MONTH: J uly To Nov ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Double integration ,Types of double ,Triple Integration,Types oftriple, Area volume for double and triple integration

Applied the order of the Higher

Mathematics UNIT 3) Application of Engineering of
integration,Double

-IV Multiple integral in polar co integration Mathe
integral - ordinates :Areas,Volumes of. matics
1) Multiple solids Tech
Intigration Double 2) Triple integral. Max
Integral,Change 4+4+4 =12 R .M.Baphna
of. Black board ,chalk

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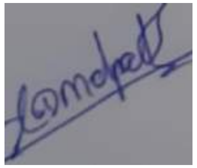
TEACHING PLAN (UNIT

NAME OF THE STAFF: -ARCHANA MALPATHAK Malpathak DEPARTMENT: Mathematics CLASS: -SYIT
SEMESTER:
III MONTH: -JULLY TO_ NOVEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTUR ES ALLOTE D	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied Maths II (SYIT) UNIT-V Beta Ga mma Functio n	1) Beta Gamma function -Defination,properties and problems,Duplication Formula 2) Differentiation Under Integral Sign 3)Error functions	5+4+3=12	Tech max Higher Engineering of mathematics Applied Maths II Nirali publication	Blackboard,chalk



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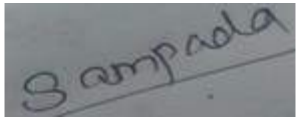

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK DEPARTMENT: IT SUB: Computer Networks CLASS:SYIT DIV: A

SEMESTER:III

MONTH:JUNE-SEPTEMBER ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.
- To be capable of managing complex IT projects with consideration of the human, financial and environmental factors.
- To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Computer Networks USIT 303 Unit - 1	**Introduction:** Data communications, networks, network types, Internet history, standards and administration. **Network Models**: Protocol layering, TCP/IP protocol suite, The OSI model. **Introduction to Physical layer:** Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance. **Digital and Analog transmission**: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	12	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

Computer Networks USIT 303 Unit - 2	**Bandwidth Utilization**: Multiplexing and Spectrum Spreading: Multiplexing, Spread Spectrum **Transmission media**: Guided Media, Unguided Media **Switching:** Introduction, circuit switched networks, packet switching, structure of a switch. **Introduction to the Data Link Layer:** Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	12	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point
Computer Networks USIT303 Unit - 3	**Data Link Control:** DLC services, data link layer protocols, HDLC, Point-to-point protocol. **Media Access Control**: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet, **Wireless LANs:** Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks. **Connecting devices and Virtual LANs**.	10	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

TEACHING PLAN (UNIT

Computer Networks USIT303 Unit - 4	**Introduction to the Network Layer**: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP **Unicast Routing:** Introduction, routing algorithms, unicast routing protocols. **Next generation IP:** IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6	10	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point
Compute Networks USIT303 Unit - 5	**Introduction to the Transport Layer:** Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n 12 9 protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol, **Standard Client0Server Protocols**: World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system	8	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	Computer, Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____HEMANT WANI__ DEPARTMENT:______Information Technology___CLASS:_SYIT_(A)

SEMESTER - III MONTH:_____July_ ACADEMIC YEAR:_____2022-23__

LEARNING OBJECTIVE/S:

The learners will be able to: Develop understanding of the concept of Transaction.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Management Systems USIT304 Unit 1	**Introduction to Databases and Transactions-** What is database system, purpose of database system. View of data, relational databases, Database architecture and transaction management.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Data Models , ER-Diagram and UML	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

	Database design and ER-Model: overview, ER_model Constraints, ERD Issues, Codd's Ruls.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT: Information Technology CLASS: SYIT (A)

SEMESTER - III MONTH: August ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Relational Algebra and also learning the Constraints.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Management Systems USIT304 Unit 2	Relational Database model: Logical views of data, keys, integrity rules, Relational Database design. Normalization.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Relational algebra**:** introduction, Selection and projection set operations, renaming, Joins, Division, syntax, semantics. Operators, grouping and ungrouping.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Calculus: Tuple relational calculus, Domain relational calculus, calculus vs algebra	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
DBMS USIT304	Constraints, types of constraints, integrity constraints.	4	Database System and Concepts by	Black Board and Chalk, Google Meet

Unit 3	Views: Introduction to views, data independence, security.		A Silberschatz, H Korth, S Sudarshan	and Power Point Presentation
Database Mgmt. Systems USIT304 Unit 3	Updates on views, comparison on tables and views.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	SQL: Data definition, aggregate function, Null values, nested queries, join relations. Triggers.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

NAME OF THE STAFF: ______HEMANT WANI___DEPARTMENT:________Information Technology___CLASS:_SYIT_(A)

SEMESTER - III MONTH:_____September_ ACADEMIC YEAR:________2022-23_____

LEARNING OBJECTIVE/S: PL/SQL, Cursors

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DBMS USIT304 Unit 4	Transaction mgmt. ACID Properties, serializability and concurrency control,	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	2PL and Deadlocks, Time stamping methods, optimistic.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	Database Recover Management	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
DBMS USIT304 Unit 5	PL-SQL: Beginning with PL/SQL, Identifiers and keywords, Operators, Expressions, Sequences, Cursors and its types.	5	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

DBMS USIT304 Unit 5	Transaction, Collection and composite data types, Procedures and functions, Exception Handling, Packages.	4	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation
	With clause and Hierarchical Retrieval, Triggers.	3	Database System and Concepts by A Silberschatz, H Korth, S Sudarshan	Black Board and Chalk, Google Meet and Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MRS. KSHITIJA. P. MANE (PALAV)**________________DEPARTMENT:_______**INFORMATION TECHNOLOGY**CLASS:**SY.B SC(IT)-A__** SEMESTER:____**III_**MONTH

JUNE-SEPTEMBER ACADEMIC YEAR:**2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

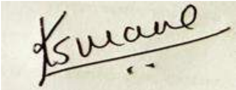
Understand the concept of data structure and how it is stored. The varieties of symbols used to store data, analysis on data, algorithms used to reduce the complexity regarding time, space and programs. Understanding the concept of Arrays and operations on array, Stack and Queue and variation of operation on them. To make understand applications where it is used , advantages and disadvantages of operation. To enable to practically generate code for it and implement it for data storage.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 (USIT302) Data Structures **Unit No -01**	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation.	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

Unit No -03				
	Array: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, SparseMatrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
	Stack: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion.	06	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues.	06	A Simplified Approach to Data Structures by	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

			Lalit Goyal, Vishal Goyal, Pawan Kumar SPD	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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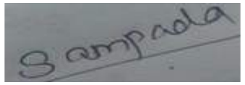

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: IT
CLASS: SYIT-A SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

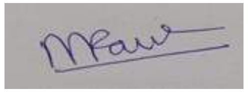
LEARNING OBJECTIVE/S:

The learners will be able to learn different structures of data, their operations, and algorithms.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES (USIT302) Unit II	**Linked List:** Introduction to Subject, Syllabus, Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, copying a List into Other List, Merging Two Linked Lists, splitting a List into Two Lists, Reversing One-way linked List, Circular Linked List, Applications of Circular Linked List	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
	Two-way Linked List, traversing a Two-way Linked List, searching in a Two-way linked List, Insertion of an element in Two-way Linked List, deleting a node from Two-way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
DATA STRUCTURES (USIT302) Unit IV	**Sorting and Searching Techniques:** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	3	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	PPT, Black Board and Chalk
	Tree: Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary	6		PPT, Black Board and Chalk

	Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort			
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, and Operations performed on AVL Tree, 23 Tree, B-Tree.	3		PPT, Black Board and Chalk
DATA STRUCTURES (USIT302) Unit V	**Hashing Techniques** Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Bucket hashing, Deletion, and rehashing	6	A Simplified Approach to Data Structures by Lalit Goyal, Vishal Goyal, Pawan Kumar	Black Board and Chalk
	Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, Graph Traversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees	6		Black Board and Chalk, https://liveexample.pearsoncmg.com /dsanimation13ejava/ GraphLearningTool.html

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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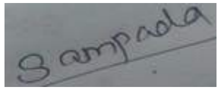

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: INFORMATION TECHNOLOGY CLASS: S.Y.B.Sc.IT

SEMESTER: III MONTH: JUNE - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Students should be able to understand the concepts of programming before actually starting to write programs.
- Students should be able to develop logic for Problem Solving.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Unit I Python Programming	**Introduction:** The Python Programming Language, History, features, Installing Python, Running Python program,	3	Think Python Allen Downey O'Reilly 1st2012	
	Debugging : Syntax Errors, Runtime Errors, Semantic Errors, Experimental Debugging, Formal and Natural Languages, The Difference Between Brackets, Braces, and Parentheses,	3		BLACKBOARD & CHALK
	Variables and Expressions Values and Types, Variables, Variable Names and Keywords, Type conversion, Operators and Operands, Expressions, Interactive Mode and Script Mode, Order of Operations.	3		BLACKBOARD & CHALK
	Conditional Statements: if, if-else, nested if –else	1		BLACKBOARD & CHALK
	Looping: for, while, nested loops Control	1		BLACKBOARD & CHALK

	statements: Terminating loops, skipping specific conditions	1		BLACKBOARD & CHALK
Paper-I Unit II Python Programming	**Functions:** Function Calls, Type Conversion Functions, Math Functions, Composition, Adding New Functions,	2	Think Python Allen Downey O'Reilly 1st2012	BLACKBOARD & CHALK
	Definitions and Uses, Flow of Execution, Parameters and Arguments, Variables and Parameters Are Local, Stack Diagrams, Fruitful Functions and Void Functions, Why Functions?	3		BLACKBOARD & CHALK
	Importing with from, Return Values, Incremental Development, Composition, Boolean Functions, More Recursion, Leap of Faith, Checking Types	3		BLACKBOARD & CHALK
	Strings: A String Is a Sequence, Traversal with a for Loop, String Slices, Strings Are Immutable, Searching, Looping and Counting, String Methods, The in Operator, String Comparison, String Operations	4		BLACKBOARD & CHALK
Paper-I Unit III Python Programming	**Lists:** Values and Accessing Elements, Lists are mutable, traversing a List, Deleting elements from List, Built-in List Operators, Concatenation, Repetition, In Operator, Built-in List functions and methods	4	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Tuples and Dictionaries: Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in Tuple Functions Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods	4		PPT BLACKBOARD & CHALK
	Files: Text Files, The File Object Attributes, Directories	2		PPT BLACKBOARD & CHALK
	Exceptions: Built-in Exceptions, Handling Exceptions, Exception with Arguments, User-defined Exceptions	2		PPT BLACKBOARD & CHALK

Paper-I Unit IV Python Programming	**Regular Expressions –** Concept of regular expression, various types of regular expressions, using match function.	2	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Classes and Objects: Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding	4		PPT BLACKBOARD & CHALK
	Multithreaded Programming: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue	3		PPT BLACKBOARD & CHALK
	Modules: Importing module, Creating and exploring modules, Math module, Random module, Time module	3		PPT BLACKBOARD & CHALK
Paper-I Unit V Python Programming	**Creating the GUI Form and Adding Widgets:** **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. Handling Standard attributes and Properties of Widgets.	4	Think Python Allen Downey O'Reilly 1st2012	PPT BLACKBOARD & CHALK
	Layout Management: Designing GUI applications with proper Layout Management features.	2		PPT BLACKBOARD & CHALK
	Look and Feel Customization: Enhancing Look and Feel of GUI using different appearances of widgets.	2		PPT BLACKBOARD & CHALK
	Storing Data in Our MySQL Database via Our GUI : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database.	4		PPT BLACKBOARD & CHALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Sampada Deshmukh DEPARTMENT: Information Technology
CLASS:S.Y.B.Sc.(I.T) SEMESTER: III MONTH:JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the basics of Data Communication and concept of networking
- Understand the concept of Analog and Digital Signal.
- Understand the Network Model and their working for data transmission.
- Learn conversion of digital to analog and vice-versa.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 Computer Networks Unit 1	**Introduction**: Data communications, networks, network types, Internet history,standards and administration.	4	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk
	Network Models:Protocol layering, TCP/IP protocol suite, The OSI model.	2	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk
	Introduction to Physical layer:Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.	3	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

	Digital and Analog transmission: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	3	Data Communication and Networking By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

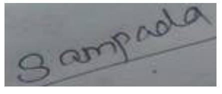
NAME OF THE STAFF:Dr. Sampada Deshmukh DEPARTMENT:Information Technology
CLASS:S.Y.B.Sc.(I.T) SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR:2022-23
LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand different transmission level protocol.
- Learn Client server Protocol and their application

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 Computer Networks Unit 5	**Introduction to the Transport Layer:** Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol	8	TCP/IP Protocol Suite By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

	Standard Client Server Protocols: World-wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.	4	TCP/IP Protocol Suite By Behrouz A. Forouzan	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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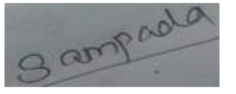

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:S.Y.BSC(I.T) DIV-B SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

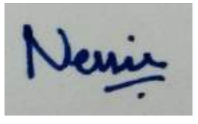
SUBJECT:COMPUTER NETWORKS

LEARNING OBJECTIVE/S:
The learners will be able to : The **course objectives** include **learning** about **computer network** organization and implementation, obtaining a theoretical understanding of data communication and **computer networks**, and gaining practical experience in installation, monitoring, and troubleshooting of current LAN systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTER NETWORKS USIT303 Unit-2	**Bandwidth Utilization:** Multiplexing and SpectrumSpreading: Multiplexing, Spread Spectrum	5	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill	PowerPoint Presentation
	Transmission media: Guided Media, Unguided Media	4		
	Switching: Introduction, circuit switched networks, packet switching, structure of a switch.	5		

	Introduction to the Data Link Layer:Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	5	Fifth Edition 2013	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**19**		
COMPUTER NETWORKS USIT303 Unit-3	**Data Link Control:**DLC services, data link layer protocols, HDLC, Point-to-point protocol.	5	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	PowerPoint Presentation
	Media Access Control: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet,	5		
	Wireless LANs: Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks.	3		
	Connecting devices and Virtual LANs.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		
COMPUTER NETWORKS USIT303 Unit-4	**Introduction to the Network Layer:** Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP	5	Data Communication and Networking	

	Unicast Routing:Introduction, routing algorithms, unicast routing protocols.	4	Behrouz A. Forouzan Tata McGraw Hill Fifth Edition	
	Next generation IP: IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6.	4		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		



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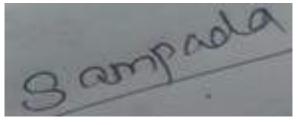

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(IT) DIV:B SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the different types of data structures and develop programs to search and sort for elements.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USIT302 unit:1, Title: Data Structures	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation.	5	A Simplified Approach to Data Structures	Blackboard Projector
	Array:Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, SparseMatrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	7	A Simplified Approach to Data Structures	Blackboard Projector

Paper: USIT302 unit:2, Title: Data Structures	**Linked List:** Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List,	6	A Simplified Approach to Data Structures	Blackboard Projector
	Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures.	6	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:3, Title: Data Structures	**Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion.	5	A Simplified Approach to Data Structures	Blackboard Projector
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue,Some special kinds of queues, Deque,Priority Queue, Application of Priority Queue, Applications of Queues.	7	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:4, Title:	**Sorting and Searching Techniques** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	4	A Simplified Approach to Data Structures	Blackboard Projector

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Data Structures	**Tree:**Tree,Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree,Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.	4	A Simplified Approach to Data Structures	Blackboard Projector
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 2-3 Tree, B-Tree.	4	A Simplified Approach to Data Structures	Blackboard Projector
Paper: USIT302 unit:5, Title: Data Structures	**Hashing Techniques** Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic,Double hashing, Buckethashing, Deletion and rehashing	6	A Simplified Approach to Data Structures	Blackboard Projector
	Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, GraphTraversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees.	6	A Simplified Approach to Data Structures	Blackboard Projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS: SY BSc IT DIV-B(DBMS) SEMESTER:SEM 3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

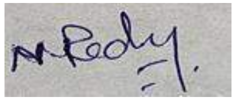
LEARNING OBJECTIVE/S:

- The learners will be able to : have a broad understanding of database concepts and database management system software
- have a high-level understanding of major DBMS components and their function
- be able to model an application's data requirements using conceptual modeling tools like ER diagrams and design database schemas based on the conceptual model.
- be able to write SQL commands to create tables and indexes, insert/update/delete data, and query data in a relational DBMS.
- be able to program a data-intensive application using DBMS APIs.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 DBMS UNIT 1	Introduction to Databases and Transactions What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Data Models The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction.	4		
	Database Design,ER Diagram and Unified Modeling Language Database design and ER Model:overview, ERModel, Constraints, ERDiagrams, ERDIssues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML	4		
	Relational database model: Logical view of data, keys, integrity rules,	3		Black board and chalk

UNIT 2	Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF).	3	DATABASE SYSTEM AND CONCEPTS BY H KORTH	
	Relational Algebra and Calculus Relational algebra: introduction, Selection and projection, set operations, renaming,Joins, Division, syntax, semantics	3		
	. Operators, grouping and ungrouping,relational comparison	2		
	Calculus: Tuple relational calculus, Domain relational Calculus, calculus vsalgebra,computational capabilities	4		
UNIT 3	Constraints, Views and SQL Constraints, types of constrains, Integrity constraints,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Views: Introduction to views, data independence, security, updates on views,comparison between tables and views	4		
	SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers	4		
UNIT 4	Transaction management and Concurrency Control Transaction management: ACID properties, serializability and concurrency control,	4	DATABASE SYSTEM AND CONCEPTS BY H KORTH	Black board and chalk
	Lock based concurrency control (2PL, Deadlocks),Time stamping methods,	4		
	optimistic methods, database recovery management.	4		
UNIT 5	PL-SQL: Beginning with PL / SQL,Identifiers and Keywords, Operators, Expressions, Sequences	4	PROGRAMMING WITH PL/SQL FOR BEGINNERS BY H. DAND,R. PATIL	Black board and chalk
	,Control Structures, Cursors and Transaction,	4		
	Collections and composite data types, Procedures and Functions, Exceptions Handling ,Packages,With Clause and Hierarchical Retrieval,Triggers.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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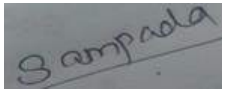

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI. DEPARTMENT: INFORMATION TECHNOLOGY CLASS: S.Y.B.Sc.IT
SEMESTER: III MONTH: JULY-OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

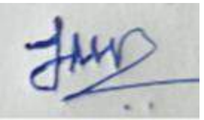
The learners will be able to :

- Students should be able to understand the concepts of programming before actually starting to write programs.
- Students should be able to develop logic for Problem Solving.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Unit IV Python Programming	**Regular Expressions –** Concept of regular expression, various types of regular expressions, using match function.	2	Think Python Allen Downey O'Reilly 1st2012	Google Meet, PPT
	Classes and Objects: Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding	4		Google Meet, PPT
	Multithreaded Programming: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue	3		Blackboard, Chalk
	Modules: Importing module, Creating and exploring modules, Math module, Random module, Time module	3		Blackboard, Chalk
Paper-I Unit V Python Programming	**Creating the GUI Form and Adding Widgets:** **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. Handling Standard attributes and Properties of Widgets.	4	Think Python Allen Downey O'Reilly 1st2012	Blackboard, Chalk

	Layout Management: Designing GUI applications with proper Layout Management features.	2		Blackboard, Chalk
	Look and Feel Customization: Enhancing Look and Feel of GUI using different appearances of widgets.	2		Blackboard, Chalk
	Storing Data in Our MySQL Database via Our GUI : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database.	4		Blackboard, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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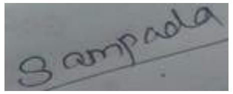

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)- DATA STRUCTURE

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: SYIT (C)

SEMESTER: III MONTH: JULY- SEPT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Get deep knowledge about different types of data structures and also the importance of algorithm and its complexity.
- Understand the use of array and different types of linked list.
- Learn about stack, stack operations, queue and different types of it.
- Understand the use of different sorting and searching techniques.
- Learn about graph theory and different types of hashing techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT302, Data Structures, Unit I	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Array: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General MultiDimensional Arrays, Sparse Arrays, Sparse Matrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

USIT302, Data Structures, Unit III	**Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion**.**	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Queue: Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues.	06	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT302, Data Structures, Unit IV	**Sorting and Searching Techniques** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search.	04	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Tree: Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.	05	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Advanced Tree Structures: Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 23 Tree, B-Tree	03	Data Structure by Lalit Goyal,Vishal Goyal and Pawan kumar, SPD, 1st , 2014	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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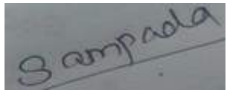

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: COMPUTER SCIENCE
CLASS: S.Y.B.Sc.IT SEMESTER: III MONTH: JULY-SEP ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to: to be capable of managing complex IT projects with consideration of the human, financial and environmental factors. to work effectively as a part of a team to achieve a common stated goal.to adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:-III TITLE:- Computer Networks UNIT 1	**Introduction:** Data communications, networks, network types, Internet history, standards and administration.	3	Data Communication and Networking By Behrouz A. Forouzan	Chalk and Board
	Network Models: Protocol layering, TCP/IP protocol suite, The OSI model.	2		
	Introduction to Physical layer: Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance.	3		
	Digital and Analog transmission: Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.	2		
UNIT 2	**Bandwidth Utilization: Multiplexing and Spectrum Spreading:** Multiplexing, Spread Spectrum	3	Data Communication and Networking By Behrouz A.	Chalk and Board
	Transmission media: Guided Media**,** Unguided Media	2		
	Switching: Introduction, circuit switched networks, packet switching, structure of a switch.	3		

	Introduction to the Data Link Layer: Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes.	3	Forouzan	
UNIT 3	**Data Link Control:** DLC services, data link layer protocols, HDLC, Point-to-point protocol.	2	Data Communication and Networking By Behrouz A. Forouzan	Chalk and Board
	Media Access Control: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet,	3		
	Wireless LANs: Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks.	2		
	Connecting devices and Virtual LANs.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 31

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Suvarna S Kannav DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: SYIT DIV: C SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: The learners will be able to : List various applications of computer networks, describe the concepts, protocols, design, implementation and use of computer networks. Also implement and evaluate new ideas for solving computer network design issues.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT303, Computer Networks, UNIT-IV	Introduction to the Network Layer: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP	05	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth Edition 2, Computer Networks Andrew Tanenbaum Pearson Fifth 2013, TCP/IP Protocol Suite Behrouz A. Forouzan Tata McGraw Hill Fourth Edition 2010	PowerPoint Presentation, OHP, Chalk and Black Board
	Unicast Routing: Introduction, routing algorithms, unicast routing protocols.	02		PowerPoint Presentation, OHP, Chalk and Black Board
	Next generation IP: IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6	05		PowerPoint Presentation, OHP, Chalk and Black Board
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**12**		
USIT303, Computer Networks, UNIT-V	Introduction to the Transport Layer: Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport 12 8 layer services, User datagram protocol, Transmission control protocol,	07	Data Communication and Networking Behrouz A. Forouzan Tata McGraw Hill Fifth	PowerPoint Presentation, OHP, Chalk and Black Board

	Standard Client0Server Protocols: World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.	05	Edition 2, Computer Networks Andrew Tanenbaum Pearson Fifth 2013, TCP/IP Protocol Suite Behrouz A. Forouzan Tata McGraw Hill Fourth Edition 2010	PowerPoint Presentation, OHP, Chalk and Black Board
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**12**		

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS

CLASS: SY BSc IT DIV-C(DS) SEMESTER:SEM 3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To understand the different data structure techniques .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Data Strucures Paper 2 Code: USIT302 Unit 2	Linked List: Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List, Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures.	12	An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson Tata MacGraw Hill	Black board& Chalk
	Hashing Techniques Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Bucket hashing, Deletion and rehashing	6	An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson	Black board& Chalk

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Data Strucures Paper 2 Code: USIT302 Unit 5			Tata MacGraw HillMcEwen, Hakim Cassimally	
	Graph: Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, GraphTraversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees	6	An Introduction to Data Structure with Applications Jean – Paul Tremblay and Paul Sorenson Tata MacGraw Hill	Black board& Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: SY IT SEMESTER: III

MONTH: October. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to: Understand Concept of Differential Equations and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V: Applied Mathematics Unit II: Differential Equations	Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations,	2	Higher Engineering Mathematics	Chalk And Board
	Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution	3		
	Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution	2		
	Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function	3		
	The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Short methods,Other methods, Differential equations reducible to the linear differential equations with constant coefficients.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF D. Pawar

SIGNATURE OF THE H.O.D. Sampada

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Advanced Web Programming** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun to Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To learn the fundamental aspects of the JavaScript programming language and how to program using document object model application programming

The learners will be able to :

- To understand .Net framework and its run time environment.
- To gain basic knowledge of C# language with its object oriented concept.
- To gain the knowledge of namespaces and assemblies.
- To understand fundamentals of web application development.
- To make use of different server controls like validation, navigation and rich server control.
- To understand back hand connectivity with SQL using ADO .Net Frame.
- To use data binding with data controls like grid view, details view and form view.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT503 **Advanced Web Programming** UNIT-1	**Introducing .NET**: The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library. **The C# Language**: C# Language Basics, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods. **Types, Objects, and Namespaces**: The Basics About Classes,	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB,	PPT, Google meets.

	Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.			
USIT503 **Advanced Web Programming** UNIT-2	**Web Form Fundamentals**: Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application. **Form Controls**: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-3	**Error Handling, Logging, and Tracing**: Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing **State Management**: Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies,	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

	Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options **Styles, Themes, and Master Pages**: Styles, Themes, Master Page Basics, Advanced Master Pages,			
USIT503 **Advanced Web Programming** UNIT-4	**ADO.NET Fundamentals**: Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access. **Data Binding**: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, **The Data Controls**: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DetailsView and FormView	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-5	**XML**: XML Explained, The XML Classes, XML Validation, XML Display and Transforms. **Security Fundamentals**: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. **ASP.NET AJAX**: Understanding Ajax, Using Partial Refreshes, Using Progress Notification, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

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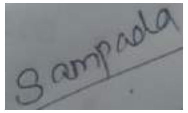
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT   DEPARTMENT: IT   CLASS: TYIT (A)

SEMESTER: V   MONTH: JUNE-SEPT   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit I	**Understanding Java EE:** What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets? What can Servlets do?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Servlet API and Lifecycle: Java Servlet API, The Servlet Skeleton, The Servlet Life Cycle, A Simple Welcome Servlet	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Databases: What Is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit II	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	SESSION: What Are Sessions? Lifecycle Of Http Session, Session Tracking With Servlet API, A Servlet Session Example	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Non-Blocking I/O: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit III	**Introduction To Java Server Pages:** Why use Java Server Pages? Disadvantages Of JSP, JSP v\s Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters for other Actions, Loading a Javabean.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language [Unified El], Expression Language.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriptlet Tags? How JSTL Fixes JSP Scriptlet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java **Unit IV**	**Introduction To Enterprise Javabeans:** Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateful Session Bean, Example of Stateless Session Bean, Example of Singleton Session Beans.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Message Driven Beans: Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Interceptors: Request And Interceptor, Defining An Interceptor, AroundInvoke Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Naming and Directory Interface: What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Persistence, Object/Relational Mapping And JPA: What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object/Relational Mapping,	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit V	**Writing JPA Application:** Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in Mysql, Creating a Web Application, Adding the Required Library Files, Creating a Javabean Class, Creating Persistence Unit [Persistence.Xml], Creating JSPS, The JPA Application Structure, Running The JPA Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The Application, Components of Hibernate, Architecture of Hibernate, How Hibernate Works?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing Hibernate Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in Mysql, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPS, Running The Hibernate Application.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartak DEPARTMENT: Information Technology CLASS: TYIT

SEMESTER: V MONTH: June to Oct ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To determine the market perspective of IoT

To compare and contrast the use of devices, gateways and Data management in IoT

To illustrate the applications of IoT in Industrial Automation and identify Real world design constraints.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Internet Of Things Unit 1	**The Internet of Things:** An Overview: The Flavour of the Internet of Things, The “Internet” of “Things”, The Technology of the Internet of Things, Enchanted Objects, Who is Making the Internet of Things?	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Design Principles for Connected Devices: Calm and Ambient Technology, Magic as Metaphor, Privacy, Keeping Secrets, Whose Data Is It Anyway? Web Thinking for Connected Devices, Small Pieces, Loosely Joined, First-Class Citizens on The Internet, Graceful Degradation, Affordances	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

	Internet Principles: Internet Communications: An Overview, IP, TCP, The IP Protocol Suite (TCP/IP), UDP, IP Addresses, DNS, Static IP Address Assignment, Dynamic IP Address Assignment, IPv6, MAC Addresses, TCP and UDP Ports, An Example: HTTP Ports, Other Common Ports, Application Layer Protocols, HTTP, HTTPS: Encrypted HTTP, Other Application Layer Protocols.	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 2	**Thinking About Prototyping:** Sketching, Familiarity, Costs versus Ease of Prototyping, Prototypes and Production, Changing Embedded Platform, Physical Prototypes and Mass Personalisation, climbing into the Cloud, Open Source versus Closed Source, Why Closed? Why Open? Mixing Open and Closed Source, Closed Source for Mass Market Projects, Tapping into the Community.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Prototyping Embedded Devices: Electronics, Sensors, Actuators, Scaling Up the Electronics, Embedded Computing Basics, Microcontrollers, System-on-Chips, Choosing Your Platform, Arduino, developing on the Arduino, Some Notes on the Hardware, Openness, Raspberry Pi, Cases and Extension Boards, Developing on the Raspberry Pi, Some Notes on the Hardware, Openness.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 3	**Prototyping the Physical Design:** Preparation, Sketch, Iterate, and Explore, Nondigital Methods, Laser Cutting, Choosing a Laser Cutter, Software, Hinges and Joints, 3D Printing, Types of 3D Printing, Software, CNC Milling, Repurposing/Recycling. Prototyping and Presence Protocol, Constrained Application	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

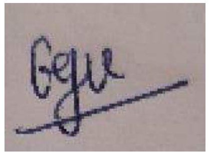
	Protocol.			

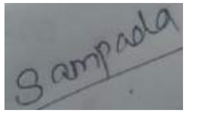
	Online Components: Getting Started with an API, Mashing Up APIs, Scraping, Legalities, writing a New API, Clockodillo, Security, implementing the API, Using Curl to Test, Going Further, Real-Time Reactions, Polling, Comet, Other Protocols, MQ Telemetry Transport, Extensible Messaging	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 4	**Techniques for Writing Embedded Code:** Memory Management, 12 8 Types of Memory, Making the Most of Your RAM, Performance and Battery Life, Libraries, Debugging.	4	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
	Business Models: A Short History of Business Models, Space and Time, From Craft to Mass Production, The Long Tail of the Internet, Learning from History, The Business Model Canvas, Who Is the Business Model For? Models, Make Thing, Sell Thing, Subscriptions, Customisation, be a Key Resource, Provide Infrastructure: Sensor Networks, take a Percentage, Funding an Internet of Things Startup, Hobby Projects and Open Source, Venture Capital, Government Funding, Crowdfunding, Lean Startups.	8	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet
Paper-02 Internet Of Things Unit 5	**Moving to Manufacture:** What Are You Producing? Designing Kits, Designing Printed circuit boards, Software Choices, The Design Process, Manufacturing Printed Circuit Boards, Etching Boards, Milling Boards. Assembly, Testing, Mass-Producing the Case and Other Fixtures, Certification, Costs, Scaling Up Software, Deployment, Correctness and Maintainability, Security, Performance, User Community.	6	Designing the Internet of Things Adrian McEwen, Hakim Cassimally	Laptop, PPT, Google Meet

	Ethics: Characterizing the Internet of Things, Privacy, Control, Disrupting Control,Crowdsourcing, Environment, Physical	6	Designing the Internet of Things Adrian	Laptop, PPT, Google Meet

	Thing, Electronics, Internet Service, Solutions, The Internet of Things as Part of the Solution, Cautious Optimism, The Open Internet of Things Definition.		McEwen, Hakim Cassimally	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: TYBSc(IT) Div:A SEMESTER: V MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the importance of software project management, project evaluation and programme management was easy,to provide knowledge of step wise planning and monitoring, understand the importance of becoming a team and decision making and project closeout.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USIT501 unit:1, Title: Software Project Management	**Introduction to Software Project Management**:Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

	Project Evaluation and Programme Management: Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
	An Overview of Project Planning:Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
Paper: USIT501 unit:5, Title:	**Working in Teams:** Introduction, becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres, Communication Plans, Leadership.	4	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

Software Project Management	**Software Quality:** Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.	5	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closeout Report.	3	Software Project Management Bob Hughes, Mike Cotterell, Rajib Mall	Blackboard Projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: <u>12</u>

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUVARNA S KANNAV DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:T.Y.BSC(I.T) DIV-A SEMESTER: **V** MONTH:JUNE-OCTOBER ACADEMIC YEAR: 2022-2023

SUBJECT:SOFTWARE PROJECT MANAGEMENT

LEARNING OBJECTIVE/S:
The learners will be able to : Apply project management concepts and techniques to an IT project. Identify issues that could lead to IT project success or failure. Explain project management in terms of the software development process. Describe the responsibilities of IT project managers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Project Management USIT501 Unit-2	**Selection of an Appropriate Project Approach:** Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Software Effort Estimation: Introduction, where are the Estimates Done? Problems with Over- and Under-Estimates, The	5		

	Basis for Software Estimating, Software Effort Estimation Techniques, Bottom up Estimating, The Top-down Approach and Parametric Models, Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Capers Jones Estimating Rules of Thumb.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**10**		
Software Project Management USIT501 Unit-3	**Activity Planning:** Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks.	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm‟s Top 10 Risks and Countermeasures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.	4		
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.	3		

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**11**		
Software Project Management USIT501 Unit-4	**Monitoring and Control:** Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation, OHP, Chalk and Black Board
	Managing Contracts: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.	4		
	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**11**		

Suvarna

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: TYBSCIT SEMESTER:V

MONTH: **JUNE-OCT** ACADEMIC YEAR:**22-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understand fundanentals of project

Be familiar with diff methods and tools used for project management

Do the project planning,scheduling,costing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT501 Software Project Management UNIT-1	**Introduction to Software Project Management**:Introduction, Whyis Software Project Management Important? What is a Project?Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies,Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Successand Failure, What is Management? Management Control, Project Management Life Cycle, Traditional versus Modern Project Management Practices.	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Project Evaluation and Programme Management: Introduction, Business Case, Project Portfolio Management, Evaluation of Individual Projects, Cost–benefit Evaluation	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Techniques, Risk Evaluation, Programme Management,			

	Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.			
	An Overview of Project Planning :Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	03	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
USIT501 Software Project Management UNIT-2	**Selection of an Appropriate Project Approach:**Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	06	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

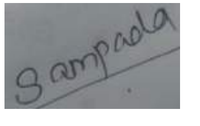
	Software Effort Estimation: Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottomup Estimating, The Top-down Approach and Parametric Models,Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points,COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of	06	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Schedule Compression, Capers Jones Estimating Rules of Thumb.			
USIT501 Software Project Management UNIT-3	**Activity Planning:** Introduction, Objectives of Activity Planning,When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating aNetwork Model, Adding the Time Dimension, The Forward Pass,Backward Pass, Identifying the Critical Path, Activity Float,Shortening the Project Duration, Identifying Critical Activities,Activity-on-Arrow Networks.	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, RiskIdentification, Risk Assessment, Risk Planning, Risk Management,Evaluating Risks to the Schedule, Boehm"s Top 10 Risks and Counter Measures, Applying the PERT Technique, Monte Carlo Simulation,Critical Chain Concepts	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
USIT501 Software Project Management	**Monitoring and Control**: Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

UNIT-4	**Managing Contracts**: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance.	04	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns.	03	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
USIT501 Software Project Management UNIT-5	**Working in Teams:** Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres, Communication Plans, Leadership	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Software Quality : Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability,Quality Plans.	05	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project CloseoutReport	02	Bob Hughes, Mike Cotterell, Rajib Mall	Laptop,power point,blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: DR. PRIYANKA ROSHAN BRID DEPARTMENT: IT CLASS: TYIT (B)

SEMESTER: V MONTH: JUNE-SEPT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit I	**Understanding Java EE:** What is an Enterprise Application? What is java enterprise edition? Java EE Technologies, Java EE evolution, Glassfish server	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java EE Architecture, Server and Containers: Types of System Architecture, Java EE Server, Java EE Containers.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Servlets: The Need for Dynamic Content, Java Servlet Technology, Why Servlets? What can Servlets do?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Servlet API and Lifecycle: Java Servlet API, The Servlet Skeleton, The Servlet Life Cycle, A Simple Welcome Servlet	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Servlets: Getting Started, Using Annotations Instead of Deployment Descriptor.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working with Databases: What Is JDBC? JDBC Architecture, Accessing Database, The Servlet GUI and Database Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java Unit II	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	COOKIES: Kinds Of Cookies, Where Cookies Are Used? Creating Cookies Using Servlet, Dynamically Changing The Colors Of A Page	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	SESSION: What Are Sessions? Lifecycle Of Http Session, Session Tracking With Servlet API, A Servlet Session Example	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Files: Uploading Files, Creating an Upload File Application, Downloading Files, Creating a Download File Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

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	Working With Non-Blocking I/O: Creating a Non-Blocking Read Application, Creating The Web Application, Creating Java Class, Creating Servlets, Retrieving The File, Creating index.jsp	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java **Unit III**	**Introduction To Java Server Pages:** Why use Java Server Pages? Disadvantages Of JSP, JSP v\s Servlets, Life Cycle of a JSP Page, How does a JSP function? How does JSP execute? About Java Server Pages	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Getting Started With Java Server Pages: Comments, JSP Document, JSP Elements, JSP GUI Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Action Elements: Including other Files, Forwarding JSP Page to Another Page, Passing Parameters for other Actions, Loading a Javabean.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Implicit Objects, Scope And El Expressions: Implicit Objects, Character Quoting Conventions, Unified Expression Language [Unified El], Expression Language.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Server Pages Standard Tag Libraries: What is wrong in using JSP Scriptlet Tags? How JSTL Fixes JSP Scriptlet's Shortcomings? Disadvantages Of JSTL, Tag Libraries.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

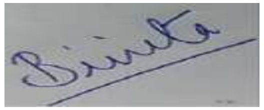
NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -I	**Introduction to Red Hat Enterprise Linux:** Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.	2	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Command Line: Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files	4		PowerPoint Presentation
	System Administration Tasks: Job Tasks, Process Monitoring and Management, Mounting Devices, Links, Backups, Printers, Logging, Rsyslog, Common Log Files, Setting Up Logrotate	4		PowerPoint Presentation
	Managing Software: Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages	2		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

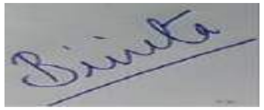
NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B   SEMESTER: V   MONTH: mid-June to mid-October   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-IV Linux System Administration Unit -II	**Configuring and Managing Storage:** Partitions, File systems, logical volumes, Snapshots, Replacing Failing Storage Devices, Swap Space, Encrypted Volumes	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Connecting to the Network: Configuring the Network with NetworkManager and command line, Services and Runlevels, system-config-network, Network Service Scripts, Troubleshooting, IPv6, Configuring SSH Server and Client, Key-Based SSH Authentication, SSH Port Forwarding, VNC Server Access	4		PowerPoint Presentation
	Working with Users, Groups, and Permissions: Creating, deleting and modifying Users, Groups, user accounts with Commands and GUI , Passwords, Using External Authentication Sources, sssd, nsswitch, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, ACL, umask, Attributes	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B   SEMESTER: V   MONTH: mid-June to mid-October   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -III	**Securing Server with iptables:** Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Setting Up Cryptographic Services: Introducing SSL, Proof of Authenticity: the Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files	4		PowerPoint Presentation
	Configuring Server for File Sharing: What is NFS? Advantages and Disadvantages of NFS, Configuring NFS4, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Automount, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services.	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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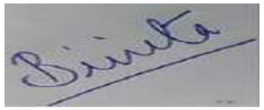
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B SEMESTER: V MONTH: mid-June to mid-October ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -IV	**Configuring DNS and DHCP:** Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server	4	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	Setting Up a Mail Server: Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mutt, Basic Configuration, Internet Configuration, Configuring Dovecot for POP and IMAP	4		PowerPoint Presentation
	Configuring Apache on Red Hat Enterprise Linux: Configuring the Apache Web Server, Creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with .htpasswd, Configuring LDAP Authentication, Setting Up MySQL	4		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar   DEPARTMENT: IT
CLASS: T. Y. B. Sc. I. T –B   SEMESTER: V   MONTH: mid-June to mid-October   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various Linux OS commands
b. Work with configurations of various servers with Linux OS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV Linux System Administration Unit -V	**Introducing Bash Shell Scripting:** Introduction, Elements of a Good Shell Script, Executing the Script, Variables and Input, Subshells, Script Arguments, Asking for Input, Command Substitution, Substitution Operators, Pattern Matching, Performing Calculations, Using Control Structures- if...then...else, case, while, until, for, Configuring booting with GRUB.	6	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	PowerPoint Presentation
	High-Availability Clustering: Workings of High Availability- Requirements, Add-on Software, Components, Cluster-Based Services, Bonding, Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Additional Cluster Properties, Quorum Disk, Fencing, Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File Systems	3		PowerPoint Presentation
	Setting Up an Installation Server: Network Server as an Installation Server, Installing the TFTP Server, Configuring DHCP for PXE Boot, Kickstart File, system-config-kickstart, Manual Modifications to the Kickstart File	3		PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Brijesh Yatindra Joshi **Advanced Web Programming** DEPARTMENT: Information Technology. CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun to Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To learn the fundamental aspects of the JavaScript programming language and how to program using document object model application programming

The learners will be able to :

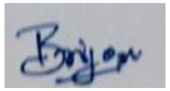
- To understand .Net framework and its run time environment.
- To gain basic knowledge of C# language with its object oriented concept.
- To gain the knowledge of namespaces and assemblies.
- To understand fundamentals of web application development.
- To make use of different server controls like validation, navigation and rich server control.
- To understand back hand connectivity with SQL using ADO .Net Frame.
- To use data binding with data controls like grid view, details view and form view.

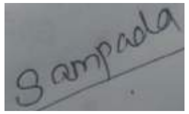
PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
USIT503 **Advanced Web Programming** UNIT-1	**Introducing .NET**: The .NET Framework, C#, VB, and the .NET Languages, The Common Language Runtime, The .NET Class Library. **The C# Language**: C# Language Basics, Variables and Data Types, Variable Operations, Object-Based Manipulation, Conditional Logic, Loops, Methods. **Types, Objects, and Namespaces**: The Basics About Classes, Building a Basic Class, Value Types and Reference Types, Understanding Namespaces and Assemblies, Advanced Class Programming.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB,	PPT, Google meets.

USIT503 **Advanced Web Programming** UNIT-2	**Web Form Fundamentals**: Writing Code, Using the Code-Behind Class, Adding Event Handlers, Understanding the Anatomy of an ASP.NET Application, Introducing Server Controls, Using the Page Class, Using Application Events, Configuring an ASP.NET Application. **Form Controls**: Stepping Up to Web Controls, Web Control Classes, List Controls, Table Controls, Web Control Events and AutoPostBack, Validation, Understanding Validation, Using the Validation Controls, Rich Controls, The Calendar, The AdRotator, Pages with Multiple Views, User Controls and Graphics, User Controls, Dynamic Graphics, The Chart Control, Website Navigation: Site Maps, URL Mapping and Routing, The SiteMapPath Control, The TreeView Control, The Menu Control.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web Programming** UNIT-3	**Error Handling, Logging, and Tracing**: Avoiding Common Errors, Understanding Exception Handling, Handling Exceptions, Throwing Your Own Exceptions, Using Page Tracing **State Management**: Understanding the Problem of State, Using View State, Transferring Information Between Pages, Using Cookies, Managing Session State, Configuring Session State, Using Application State, Comparing State Management Options **Styles, Themes, and Master Pages**: Styles, Themes, Master Page Basics, Advanced Master Pages,	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.
USIT503 **Advanced Web**	**ADO.NET Fundamentals**: Understanding Databases, Configuring Your Database, Understanding SQL Basics, Understanding the Data Provider Model, Using Direct Data Access, Using Disconnected Data Access.	12	1.Beginning Visual C# 2010 2.Murach's ASP.NET 4 Web Programming with C# 2010,	PPT, Google meets.

Programming UNIT-4	**Data Binding**: Introducing Data Binding, Using Single-Value Data Binding, Using Repeated-Value Data Binding, Working with Data Source Controls, **The Data Controls**: The GridView, Formatting the GridView, selecting a GridView Row, Editing with the GridView, Sorting and Paging the GridView, Using GridView Templates, The DetailsView and FormView		3. Beginning ASP.NET 4 in C# and VB	
USIT503 **Advanced Web** **Programming** UNIT-5	**XML**: XML Explained, The XML Classes, XML Validation, XML Display and Transforms. **Security Fundamentals**: Understanding Security Requirements, Authentication and Authorization, Forms Authentication, Windows Authentication. **ASP.NET AJAX**: Understanding Ajax, Using Partial Refreshes, Using Progress Notification, Implementing Timed Refreshes, Working with the ASP.NET AJAX Control Toolkit.	12	1.Beginning Visual C# 2010 2.Murach’s ASP.NET 4 Web Programming with C# 2010, 3. Beginning ASP.NET 4 in C# and VB	PPT, Google meets.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Enterprise JAVA** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: Jun To Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To support for many industry standards and continues simplification of enterprise ready APIs.

The learners will be able to :

- To understand Java Enterprise edition with its different technologies.
- To understand Java EE architectural server and contains.
- To understand server side technology like Java Servlets with its API and life cycle.
- To make data base connectivity using JDBC.
- To navigate using request dispatcher interface.
- To understand state management using cookies and session.
- To understand how to upload and download the file.
- To be able to work with non-blocking I/O resources.
- To understand server side technology like Java Server Pages.
- To make use of action elements, implicit objects, expression language and JSTL.
- To understand enterprise bill, architectural and its bill.
- To be able to working with session beans and message driven beans.
- To understand interceptors and JNDI.
- To make use of ORM and JPA with its API.
- To understand writing JPA application.
- To be able to understand hibernate architectural and components.
- To understand writing hibernate application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506 **ENTERPRISE JAVA** UNIT-1	**Understanding Java EE:** WhatisanEnterpriseApplication? Whatisjavaenterpriseedition? JavaEETechnologies, JavaEEevolution, Glassfishserver **JavaEE Architecture,Serverand Containers:** TypesofSystemArchitecture, JavaEEServer, JavaEEContainers. **Introduction to Java Servlets:** TheNeedforDynamicContent, JavaServletTechnology, WhyServlets? WhatcanServletsdo? **Servlet API and Lifecycle:** JavaServletAPI, TheServletSkeleton, TheServletLifeCycle, ASimpleWelcomeServlet **WorkingwithServlets:** GettingStarted, UsingAnnotationsInsteadofDeploymentDescriptor. **Working with Databases:** WhatIsJDBC? JDBCArchitecture, AccessingDatabase, TheServletGUI and DatabaseExample.	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	PPT, Google meets.

USIT506 **ENTERPRISE JAVA** UNIT-2	**Request Dispatcher:** Resquestdispatcher Interface, Methods of Requestdispatcher, Requestdispatcher Application. **COOKIES:** KindsofCookies, WhereCookiesAreUsed? CreatingCookiesUsingServlet, DynamicallyChangingtheColorsofAPage **SESSION:** WhatAreSessions? LifecycleofHttpSession, SessionTrackingWithServletAPI, AServlet Session Example **Workingwith Files:** UploadingFiles, CreatinganUploadFileApplication, DownloadingFiles, CreatingaDownloadFileApplication. **Workingwith Non-Blocking I/O:** CreatingaNon-BlockingReadApplication, CreatingTheWeb Application, CreatingJavaClass, Creating Servlets, Retrieving The File, Creating index.jsp	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	PPT, Google meets.

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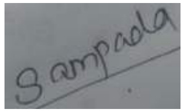
USIT506 **ENTERPRISE JAVA** UNIT-3	**Introduction To Java ServerPages:** WhyuseJava ServerPages? DisadvantagesOfJSP, JSPv\sServlets, LifeCycleofaJSPPage, HowdoesaJSPfunction? HowdoesJSPexecute? AboutJava ServerPages **Getting Started With Java ServerPages:** Comments, JSPDocument, JSPElements, JSPGUIExample. **Action Elements:** IncludingotherFiles, ForwardingJSPPagetoAnotherPage, PassingParametersforotherActions, LoadingaJavabean. **Implicit Objects, Scopeand ElExpressions:** ImplicitObjects, CharacterQuotingConventions, UnifiedExpressionLanguage[UnifiedEl], ExpressionLanguage. **Java Server Pages Standard Tag Libraries:** WhatiswronginusingJSPScriptletTags? HowJSTLFixesJSPScriptlet'sShortcomings? DisadvantagesOfJSTL, TagLibraries.	12	**1.** Java Complete Reference, **2.** Core Java Vol. II – Advanced Features, **3.** Java EE 6 Beginners,	Black Board, Projector, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)-ENTERPRISE JAVA

NAME OF THE STAFF: DR.PRIYANKA ROSHAN BRID   DEPARTMENT: IT   CLASS: TYIT (C)

SEMESTER: V   MONTH: JUNE-SEPT   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Java EE Architecture, Server and Containers.
- Describe the different servlet API and lifecycle of servlet.
- Get the difference between cookies, session and request dispatcher.
- Understand the use of tag library, naming directory, interceptors.
- Familiar with java beans, JPA, hibernate and JSP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT506, Enterprise Java Unit IV	**Introduction To Enterprise Javabeans:** Enterprise Bean Architecture, Benefits of Enterprise Bean, Types of Enterprise Bean, Accessing Enterprise Beans, Enterprise Bean Application, Packaging Enterprise Beans	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Working With Session Beans: When to use Session Beans? Types of Session Beans, Remote and Local Interfaces, Accessing Interfaces, Lifecycle of Enterprise Beans, Packaging Enterprise Beans, Example of Stateful Session Bean, Example of Stateless Session Bean, Example of Singleton Session Beans.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Working with Message Driven Beans: Lifecycle of a Message Driven Bean, Uses of Message Driven Beans, The Message Driven Beans Example.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Interceptors: Request And Interceptor, Defining An Interceptor, AroundInvoke Method, Applying Interceptor, Adding An Interceptor To An Enterprise Bean, Build and Run the Web Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Java Naming and Directory Interface: What is Naming Service? What is Directory Service? What is Java Naming and Directory interface? Basic Lookup, JNDI Namespace in Java EE, Resources and JNDI, Datasource Resource Definition in Java EE.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
USIT506, Enterprise Java **Unit V**	**Persistence, Object/Relational Mapping And JPA:** What is Persistence? Persistence in Java, Current Persistence Standards in Java, Why another Persistence Standards? Object/Relational Mapping,	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Introduction to Java Persistence API: The Java Persistence API, JPA, ORM, Database and the Application, Architecture of JPA, How JPA Works? JPA Specifications.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing JPA Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database And Tables in Mysql, Creating a Web Application, Adding the Required Library Files, Creating a Javabean Class, Creating Persistence Unit [Persistence.Xml], Creating JSPS, The JPA Application Structure, Running The JPA Application.	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

	Introduction to Hibernate: What is Hibernate? Why Hibernate? Hibernate, Database and The Application, Components of Hibernate, Architecture of Hibernate, How Hibernate Works?	02	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint
	Writing Hibernate Application: Application Requirement Specifications, Software Requirements, The Application Development Approach, Creating Database and Tables in Mysql, Creating a Web Application, Adding The Required Library Files, Creating a Javabean Class, Creating Hibernate Configuration File, Adding a Mapping Class, Creating JSPS, Running The Hibernate Application.	03	Java EE 7 For Beginners by Sharanam Shah, Vaishali Shah, SPD, First, 2012	Desktop and Laptop, Projector, Black Board and chalk,PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MRS. KSHITIJA. P. MANE (PALAV)**_______DEPARTMENT:_______**INFORMATION TECHNOLOGY**________

CLASS:____**T.Y.B.SC (IT)** SEMESTER:____**V**______ MONTH:_____**JUNE-SEPTEMBER** _ ACADEMIC YEAR: ___________

_____**2022-2023**________

LEARNING OBJECTIVE/S:
The learners will be able to:

- **Understand the background of Red Hat Linux administration as an operating system.**
- **How to work with various commands and their implementation in Linux bash shell system.**
- **To understand basic management tasks, administrative tasks and managing different services with RPM.**
- **Helps to make you configure and install the software, working with the networks and creation of users, groups and permissions in system.**
- **To make you understand the security concept of the system and cryptographic services.**
- **It also make you understand how to configure and to install different servers(FTP, Mail services, DHCP, Samba etc.) and to enable its services and to provide client server architecture working.**
- **Helps to create clusters and provide better understanding of shell scripting.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-04 (USIT505) **Linux System Administration**	**Introduction to Red Hat Enterprise Linux:** Linux, Open Source and Red Hat, Origins of Linux, Distributions, Duties of Linux System Administrator.	02	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	Textbook, Laptop, Projector, Chalk and Duster, Blackboard.

Unit No -01			John Wiley and Sons	
	Command Line: Working with the Bash Shell, Getting the Best of Bash, Useful Bash Key Sequences, Working with Bash History, Performing Basic File System Management Tasks, Working with Directories, Piping and Redirection, Finding Files	04		Textbook, Laptop, Projector, Chalk and Duster, Blackboard.
	System Administration Tasks: Performing Job Management Tasks, System and Process Monitoring and Management, Managing Processes with ps, Sending Signals to Processes with the kill Command, Using top to Show Current System Activity, Managing Process Niceness, Scheduling Jobs, Mounting Devices, Working with Links, Creating Backups, Managing Printers, Setting Up System Logging, Setting Up Rsyslog, Common Log Files, Setting Up Logrotate	04		Textbook, Laptop, Projector.
	Managing Software: Understanding RPM, Understanding Meta Package Handlers, Creating Your Own Repositories, Managing Repositories, Installing Software with Yum, Querying Software, Extracting Files from RPM Packages	02		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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Unit No -02	**Configuring and Managing Storage:** Understanding Partitions and Logical Volumes, Creating Partitions, Creating File Systems, File Systems Overview, Creating File Systems, Changing File System Properties, Checking the File System Integrity, Mounting File Systems Automatically Through fstab, Working with	04	Red Hat Enterprise Linux 6 Administration By	Textbook, Laptop, Projector.

	Logical Volumes, Creating Logical Volumes, Resizing Logical Volumes, Working with Snapshots, Replacing Failing Storage Devices, Creating Swap Space, Working with Encrypted Volumes .		Sander van Vugt , John Wiley and Sons	
	Connecting to the Network: Understanding NetworkManager, Working with Services and Runlevels, Configuring the Network with NetworkManager, Working with system-config-network, NetworkManager Configuration Files, Network Service Scripts, Networking from the Command Line, Troubleshooting Networking, Setting Up IPv6, Configuring SSH, Enabling the SSH Server, Using the SSH Client, Using PuTTY on Windows Machines, Configuring Key-Based SSH Authentication, Using Graphical Applications with SSH, Using SSH Port Forwarding, Configuring VNC Server Access	04		Textbook, Laptop, Projector.
	Working with Users, Groups, and Permissions: Managing Users and Groups, Commands for User Management, Managing Passwords, Modifying and Deleting User Accounts, Configuration Files, Creating Groups, Using Graphical Tools for User, and Group Management, Using External Authentication Sources, the Authentication Process, sssd, nsswitch, Pluggable Authentication Modules, Managing Permissions, the Role of Ownership, Basic Permissions: Read, Write, and Execute, Advanced Permissions, Working with Access Control Lists, Setting Default Permissions with umask, Working with Attributes	04		Textbook, Laptop, Projector.

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Unit No -03	**Securing Server with iptables:** Understanding Firewalls, Setting Up a Firewall with system-config-firewall, Allowing Services, Trusted Interfaces, Masquerading, Configuration Files, Setting Up a Firewall with iptables, Tables, Chains, and Rules, Composition of Rule, Configuration Example, Advanced iptables Configuration, Configuring Logging, The Limit Module, Configuring NAT	04	Red Hat Enterprise Linux 6 Administration By Sander van Vugt John Wiley and Sons	Textbook, Laptop, Projector.
	Setting Up Cryptographic Services: Introducing SSL, Proof of Authenticity: the Certificate Authority, Managing Certificates with openssl, Creating a Signing Request, Working with GNU Privacy Guard, Creating GPG Keys, Key Transfer, Managing GPG Keys, Encrypting Files with GPG, GPG Signing, Signing RPM Files	04		Textbook, Laptop, Projector.
	Configuring Server for File Sharing: What is NFS? Advantages and Disadvantages of NFS, Configuring NFS4, Setting Up NFSv4, Mounting an NFS Share, Making NFS Mounts Persistent, Configuring Automount, Configuring Samba, Setting Up a Samba File Server, Samba Advanced Authentication Options, Accessing Samba Shares, Offering FTP Services.	04		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

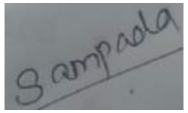
Unit No -04	**Configuring DNS and DHCP:** Introduction to DNS, The DNS Hierarchy, DNS Server Types, The DNS Lookup Process, DNS Zone Types, Setting Up a DNS Server, Setting Up a Cache-Only Name Server, Setting Up a Primary Name Server, Setting Up a Secondary Name Server, Understanding DHCP, Setting Up a DHCP Server	04	Red Hat Enterprise Linux 6 Administration By Sander van Vugt	Textbook, Laptop, Projector.

			John Wiley and Sons	
	Setting Up a Mail Server: Using the Message Transfer Agent, the Mail Delivery Agent, the Mail User Agent, Setting Up Postfix as an SMTP Server, Working with Mutt, Basic Configuration, Internet Configuration, Configuring Dovecot for POP and IMAP	03		Textbook, Laptop, Projector.
	Configuring Apache on Red Hat Enterprise Linux: Configuring the Apache Web Server, Creating a Basic Website, Understanding the Apache Configuration Files, Apache Log Files, Working with Virtual Hosts, Securing the Web Server with TLS Certificates, Configuring Authentication, Setting Up Authentication with .htpasswd, Configuring LDAP Authentication, Setting Up MySQL	05		Textbook, Laptop, Projector.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Introducing Bash Shell Scripting:** Introduction, Elements of a Good Shell Script, Executing the Script, Working with Variables and Input, Understanding Variables, Variables, Subshells, and Sourcing, Working with Script Arguments, Asking for Input, Using Command Substitution, Substitution Operators, Changing Variable Content with Pattern Matching, Performing Calculations, Using Control Structures, Using if...then...else, Using case, Using while, Using until, Using for, Configuring booting with GRUB.	03	Red Hat Enterprise Linux 6 Administration By Sander van Vugt John Wiley and Sons	Textbook, Laptop, Projector.

	High-Availability Clustering: High-Availability Clustering, The Workings of High Availability, High-Availability Requirements, Red Hat High-Availability Add-on Software,	05		Textbook, Laptop, Projector.

	Components, Configuring Cluster-Based Services, Setting Up Bonding, Setting Up Shared Storage, Installing the Red Hat High Availability Add-On, Building the Initial State of the Cluster, Configuring Additional Cluster Properties, Configuring a Quorum Disk, Setting Up Fencing, Creating Resources and Services, Troubleshooting a Nonoperational Cluster, Configuring GFS2 File Systems			
	Setting Up an Installation Server: Configuring a Network Server as an Installation Server, Setting Up a TFTP and DHCP Server for PXE Boot, Installing the TFTP Server, Configuring DHCP for PXE Boot, Creating the TFTP PXE Server Content, Creating a Kickstart File, Using a Kickstart File to Perform an Automated, Installation, Modifying the Kickstart File with, system-config-kickstart, Making Manual Modifications to the Kickstart File	04		Textbook, Laptop, Projector.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS:T.Y.BSC(I.T) DIV-C SEMESTER: **V** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:SOFTWARE PROJECT MANAGEMENT

LEARNING OBJECTIVE/S:
The learners will be able to : Apply project management concepts and techniques to an IT project. Identify issues that could lead to IT project success or failure. Explain project management in terms of the software development process. Describe the responsibilities of IT project managers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Project Management USIT501 Unit-1	**Introduction to Software Project Management:**Introduction, Why is Software Project Management Important? What is a Project? Software Projects versus Other Types of Project, Contract Management and Technical Project Management, Activities Covered by Software Project Management, Plans, Methods and Methodologies, Some Ways of Categorizing Software Projects, Project Charter, Stakeholders, Setting Objectives, The Business Case, Project Success and Failure, What is Management? Management Control, Project Management Life Cycle , Traditional versus Modern Project Management Practices.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation

	Project Evaluation and Programme Management: Introduction, Business Case, Project PortfolioManagement, Evaluation of Individual Projects, Cost–benefit Evaluation Techniques, Risk Evaluation, Programme Management, Managing the Allocation of Resources within Programmes, Strategic Programme Management, Creating a Programme, Aids to Programme Management, Some Reservations about Programme Management, Benefits Management.	5		
	An Overview of Project Planning: Introduction to Step Wise Project Planning, Step 0: Select Project, Step 1: Identify Project Scope and Objectives, Step 2: Identify Project Infrastructure, Step 3: Analyse Project Characteristics, Step 4: Identify Project Products and Activities, Step 5: Estimate Effort for Each Activity, Step 6: Identify Activity Risks, Step 7: Allocate Resources, Step 8: Review/Publicize Plan, Steps 9 and 10: Execute Plan/Lower Levels of Planning	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	15		

Software Project Management USIT501 Unit-2	**Selection of an Appropriate Project Approach:** Introduction, Build or Buy? Choosing Methodologies and Technologies, Software Processes and Process Models, Choice of Process Models, Structure versus Speed of Delivery, The Waterfall Model, The Spiral Model, Software Prototyping, Other Ways of Categorizing Prototypes, Incremental Delivery, Atern/Dynamic Systems Development Method, Rapid Application Development, Agile Methods, Extreme Programming (XP), Scrum, Lean Software Development, Managing Iterative Processes, Selecting the Most Appropriate Process Model.	5	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Software Effort Estimation: Introduction, Where are the Estimates Done? Problems with Over- and Under-Estimates, The Basis for Software Estimating, Software Effort Estimation Techniques, Bottom up Estimating, The Top-down Approach and Parametric Models, Expert Judgement, Estimating by Analogy, Albrecht Function Point Analysis, Function Points Mark II, COSMIC Full Function Points, COCOMO II: A Parametric Productivity Model, Cost Estimation, Staffing Pattern, Effect of Schedule Compression, Capers Jones Estimating Rules of Thumb.	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	10		
Software Project Management USIT501 Unit-3	**Activity Planning:** Introduction, Objectives of Activity Planning, When to Plan, Project Schedules, Projects and Activities, Sequencing and Scheduling Activities, Network Planning Models, Formulating a Network Model, Adding the Time Dimension, The Forward Pass, Backward Pass, Identifying the Critical Path, Activity Float, Shortening the Project Duration, Identifying Critical Activities, Activity-on-Arrow Networks.	4	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation

	Risk Management: Introduction, Risk, Categories of Risk, Risk Management Approaches, A Framework for Dealing with Risk, Risk Identification, Risk Assessment, Risk Planning, Risk Management, Evaluating Risks to the Schedule, Boehm‟s Top 10 Risks and Countermeasures, Applying the PERT Technique, Monte Carlo Simulation, Critical Chain Concepts.	4		
	Resource Allocation: Introduction, Nature of Resources, Identifying Resource Requirements, Scheduling Resources, Creating Critical Paths, Counting the Cost, Being Specific, Publishing the Resource Schedule, Cost Schedules, Scheduling Sequence.	3		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	11		
Software Project Management USIT501 Unit-4	**Monitoring and Control**: Introduction, Creating the Framework, Collecting the Data, Review, Visualizing Progress, Cost Monitoring, Earned Value Analysis, Prioritizing Monitoring, Getting the Project Back to Target, Change Control, Software Configuration Management (SCM).	3	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Managing Contracts: Introduction, Types of Contract, Stages in Contract Placement, Typical Terms of a Contract, Contract Management, Acceptance	2		
	Managing People in Software Environments: Introduction, Understanding Behaviour, Organizational Behaviour: A Background, Selecting the Right Person for the Job, Instruction in the Best Methods, Motivation, The Oldham–Hackman Job Characteristics Model, Stress, Stress Management, Health and Safety, Some Ethical and Professional Concerns	4		

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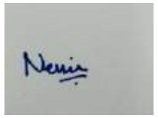
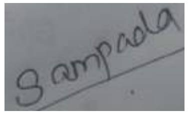
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	9		
Software Project Management USIT501 Unit-5	**Working in Teams:** Introduction, Becoming a Team, Decision Making, Organization and Team Structures, Coordination Dependencies, Dispersed and Virtual Teams, Communication Genres,Communication Plans, Leadership.	3	Software Project Management - Bob Hughes, Mike Cotterell, Rajib Mall TMH 6 th 2018	PowerPoint Presentation
	Software Quality : Introduction, The Place of Software Quality in Project Planning, Importance of Software Quality, Defining Software Quality, Software Quality Models, ISO 9126, Product and Process Metrics, Product versus Process Quality Management, Quality Management Systems, Process Capability Models, Techniques to Help Enhance Software Quality, Testing, Software Reliability, Quality Plans.	5		
	Project Closeout: Introduction, Reasons for Project Closure, Project Closure Process, Performing a Financial Closure, Project Closeout Report.	2		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**10**		



SIGNATURE OF THE STAFF



SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)__CLASS: FYIT SEMESTER: _**I**I MONTH:___FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4	Numerical solution of 1st and 2nd order differential equations- Taylor series, Euler's simple formula Modified Euler's Method R-K seconds and fourth order. Least square Regression Linear Regression, Polynomial Regression, Multilinear Regression, Nonlinear Regression, General Linear Least Squares Method	12	Numerical Techniques- R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

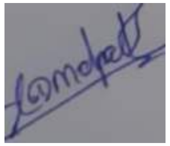
NAME OF THE STAFF: Mrs. ARCHANA MALPATHAK DEPARTMENT: MATHEMATICS CLASS: S.Y.B.Sc. I. T.

SEMESTER: IV MONTH: NOVEMBER – MARCH ACADEMIC YEAR: 2022-2023

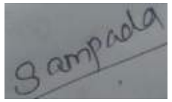
LEARNING OBJECTIVE/S:
The learners will be able to: Mean ,mode,Median,with it's different method ,Quartile Quartile deviation,percentile Decile ,Mean deviatin.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTER ORIENTED STATISTICAL THEORY UNIT – I **The Mean, Median, Mode, and Other Measures of Central Tendency**	**1) The Mean, Median, Mode, and Other Measures of Central Tendency**: Index, or Subscript, Notation, Summation Notation, Averages, or Measures of Central Tendency ,The Arithmetic Mean , The Weighted Arithmetic Mean ,Properties of the Arithmetic Mean ,The Arithmetic Mean Computed from Grouped Data ,The Median ,The Mode, The Empirical Relation Between the Mean, Median, and Mode, The Geometric Mean G, The Harmonic Mean H ,The Relation Between the Arithmetic, Geometric, and Harmonic Means, The Root Mean Square, Quartiles, Deciles, and Percentiles, Software and Measures of Central Tendency. **2)The Standard Deviation and Other Measures of Dispersion**: Dispersion, or Variation, The Range, The Mean Deviation, The Semi Interquartile Range, The 10–90 Percentile Range, The Standard Deviation, The Variance, Short Methods for Computing the Standard Deviation, Properties of the Standard Deviation, Charlie's Check, Sheppard's Correction for Variance, Empirical Relations Between Measures of Dispersion, Absolute and Relative Dispersion; Coefficient of Variation, Standardized Variable; Standard Scores, Software and Measures of Dispersion. **Introduction to R:** Basic syntax, data types, variables, operators, control statements, R-functions, R –Vectors, R – lists, R Arrays.	6+6=12	FUNDAMENTAL. OF MATHEMATICAL STATISTICS S.C. GUPTA and V.K. KAPOOR	Black Board,chalk, online teaching method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande DEPARTMENT: Computer Science

CLASS: T.Y.I.T SEMESTER: VI

MONTH: Dec - April ACADEMIC YEAR: 2022-23

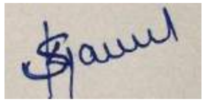
LEARNING OBJECTIVE/S:
The learners will be able to :

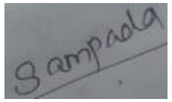
Student will able to understand the importance of software quality.
Aspects that the related to software quality.
Stakeholders and their relationship.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCSIT601 Software Quality Assurance UNIT - I	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	6	Software Testing and Continuous Quality Improvement Software Testing: Principles, Techniques and Tools	PPT
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture,	6		PPT

	Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life Cycle, Software Quality Management, Why Software Has Defects? Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Malpathak DEPARTMENT: Mathematics. CLASS: SYIT SEMESTER. -: IV MONTH: November- March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : _Moments,central moment skewness,kurtosis charlichecks,sheppard's ,probability,venn diagram, small sampling .

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
COST UNIT- II Moments skewness and kurtosis and Sampling Theory	1)Moments,moments for Grouped data,computation of moments for grouped data,charlie'sCheck and Sheppard's correction,skewness ,kurtosis,population Moments,Skewness	06	Techmax Higher Engineering of Maths	Blackboard ,chalk,,Calculator
	2)Elementary probablity Theory- Def of probability,conditional probablity,Independent and dependent event,Mutually Exclusive events,probablity distribution,Mathematical Expectation,Relation between population,Striling to n!,veen Diagram, 3) Elementary Sampling Theory :sampling Theory,Random sample,Sampling with and without replacement,Sampling Distribution,sampling distribution of mean,Sampling distribution of difference and sums,Standard Error.	06	Statistics by Gupta Cost by Sheth publication	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF Archana Malpathak DEPARTMENT: Mathematics_CLASS: SYIT_

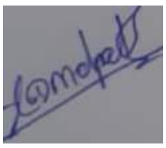
SEMESTER:_I MONTH: November To march

ACADEMIC Year 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to *:*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
COST Unit. -IV Small Sampling Theory	Small sample,Student t-distribution,confidence interval,Test of Hypothesis and Significance,The Chi-Square Distribution,Confidence interval by sigma,Degree of freedom,The F-Distribution The chi squre test :Observed snd therotical Frequencies,Defination of chi squre,Significance Tests,Goodness of fit ,Contigency tables,Yate's Correction,simple formula for chi squre	12	Tech Max Higher Engineering of Mathematics Sheth publication Statistics byGupta	Blackboard, chalk, Calculatoonline teaching methodr.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______________



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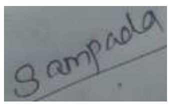

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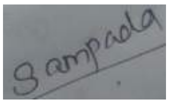
TEACHINGPLAN(UNITPLAN)

NAMEOFTHESTAFF:ArchanaMalpathak DEPARTMENT:Mathematics CLASS: SYIT SEMESTER:-IVMONTH: NOV To March ACADEMICYEAR:_2022 -2023

LEARNINGOBJECTIVE/S:
Thelearnerswillbeableto:____Curvefitting,Leastsquaremethodforlinearandnon-linear,RegressionoflineRegressioncoefficient,correlationcoefficientsamplingtheoryofregression,StandardError.

PAPER, UNIT,TITLE	SUBTOPICS	NOOF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
COST Unit-IV Curve FittingandCorrelationTheory.	Curvefitting,Freehandmethodofcurvefitting,Equationoflinebyleastsquaremethod,Leastsqureline,NonlinearRelationships,TheLeastSquare Parabola,Regression,Correlation Theory-Correlation and regression,Linear correlation,Measure of Correlation,TheLeastSquareRegressionlines,Standard Error,Explain Dandun explained variations Short computational formula,samplingtheory of regression.	12	Techmax Higher Engineeringof Mathematics StatisticsbyGupta	Black board. chalk, Calculator online method

SIGNATUREOFTHESTAFF



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TEACHING PLAN (UNIT PLAN)-CORE JAVA

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: SYIT (B)

SEMESTER: IV MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Acquire knowledge of programming language java.
- Understand data types, control flow statements, iterations and classes.
- Gain proficiency in inheritance and packages.
- Understand enumeration, arrays, exceptions and byte stream.
- Acquire knowledge of event handling and layouts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT401, Core Java, Unit I	**Introduction:** History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit,Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler and Interpreter, java programs, java applications, main (), public, static, void, string [] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	06	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, operator, logical operator, bitwise	06	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	operator, conditional operator assignment operators, increment and decrement operator, relational operators			
USIT401, Core Java, Unit II	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading,Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit III	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords.	04	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces, What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	05	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit IV	**Enumerations,Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
USIT401, Core Java, Unit V	**Event Handling:** Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	03	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	07	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout.	02	Core Java 8 for Beginners by Vaishali Shah, Sharnam Shah, SPD,1st, 2015	Blackboard,chalk and duster, powerpoint presentation, projector

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Gayatree Karnik DEPARTMENT:IT CLASS: SYIT A SEMESTER: IV
MONTH: _December to March ACADEMIC YEAR: _2022-23
LEARNING OBJECTIVE/S:
The learners will be able to:

To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. To be capable of managing complex IT projects with consideration of the human, financial and environmental factors. To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Engineering USIT404 Unit - 1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models. Waterfall Model. Prototyping. Iterative	2 2 2	Ian Somerville Roger Pressman	Chalk, Blackboard

	Development. Rational Unified Process. The RAD Model Time boxing Model. Agile software development: Agile methods. Plan-driven and agile development, Extreme programming, Agile project management methods.	2		
Software Engineering USIT404 Unit - 5	**Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change. The CMMI Process Improvement Framework. Service Oriented Software Engineering: Services as reusable components, Service Engineering. Software Development with Services. Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse. Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service.	2 2 2 2	Ian Somerville Roger Pressman	Chalk, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANT WANI DEPARTMENT: BSC-IT CLASS: SYIT B SEMESTER: IV
MONTH: December to March ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVE/S:
The learners will be able to:

To adhere to the highest standards of ethics, including relevant industry and organizational codes of conduct. To be capable of managing complex IT projects with consideration of the human, financial and environmental factors. To work effectively as a part of a team to achieve a common stated goal.

TITLE PAPER, UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Software Engineering USIT404 Unit - 1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. Software Processes: Process and Project, Component Software Processes. Software Development Process Models. · Waterfall Model. · Prototyping. · Iterative Development. · Rational Unified Process. · The RAD	3 4 3	Ian Somerville Roger Pressman	Chalk, Blackboard

	Model · Time boxing Model. Agile software development: Agile methods. Plan-driven and agile development, Extreme programming, Agile project management methods.	2		
Software Engineering USIT404 Unit - 2	**Socio-technical system:** Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering. Components of system such as organization, people and computers, Dealing Legacy Systems. Critical system: Types of critical system. A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems. Requirements Engineering Processes: Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

Software Engineering USIT404 Unit - 3	**Architectural Design:** Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures. User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation. Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management. Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics.	2 3 2 2 3	Ian Somerville Roger Pressman	Chalk, Blackboard

Software Engineering USIT404 Unit - 4	**Verification and Validation:** Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods. Software Testing: System Testing, Component Testing, Test Case Design, Test Automation. Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics **Software Cost Estimation:** Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing.	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

Software Engineering USIT404 Unit - 5	**Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change. The CMMI Process Improvement Framework. Service Oriented Software Engineering: Services as reusable components, Service Engineering. Software Development with Services. Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse. Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service.	3 3 3 3	Ian Somerville Roger Pressman	Chalk, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(IT) DIV:A SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : Understand programming language and tools to develop computer programs and systems that are effective solutions to problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper:USIT401, unit:2, Title:Core Java	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	5	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
Paper:USIT401, unit:3, Title:Core Java	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces,	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	4	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

Paper:USIT401, unit:4, Title:Core Java	**Enumerations,Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file	3	Core Java 8 for Beginners , Java: The Complete Reference	Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT:IT

CLASS: SY BSc IT DIV-A(CJ) SEMESTER:SEM-4 MONTH:DEC-MAR ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

To learn why Java is useful for the design of desktop and web applications.
To learn how to implement object-oriented designs with Java.
To identify Java language components and how they work together in applications.
To design and program stand-alone Java applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CORE JAVA PAPER-1 Unit 1	**Introduction:** History, architecture and its components,Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit,	2	Core Java 8 for Beginners BY Vaishali Shah, Sharnam Shah	BLACK BOARD AND CHALK
	Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler And Interpreter, java programs, java applications,	2		
	main(), public, static, void, string[] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	2		
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operator	4		

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Unit 5	Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator,			
	bitwise operator, conditional operator.	2		
	Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	3	Core Java 8 for Beginners BY Vaishali Shah, Sharnam Shah	BLACK BOARD AND CHALK
	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas	3		
	.Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	3		
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak　　DEPARTMENT: Information Technology

CLASS: SYIT　　SEMESTER: IV　　MONTH: NOV to MARCH　　ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To provide experience to integrate hardware and software for microcontroller applications systems.

To acquire knowledge about microcontrollers embedded processors and their applications

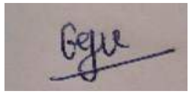
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Embedded System Unit 1	**Introduction:** Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Core of embedded systems: microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Characteristics and quality attributes of embedded systems: Characteristics, operational and non-operational quality attributes.	3	Introduction to embedded systems Shibu K V	Projector, Laptop, Black board & Chalk

			Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	
Paper-02 Embedded System Unit 2	**Embedded Systems – Application and Domain Specific:** Application specific – washing machine, domain specific - automotive.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02	**The 8051 Microcontrollers:** Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

Embedded System Unit 3			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Embedded System Unit 4	**Designing Embedded System with 8051 Microcontroller:** Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Embedded System Unit 5	**Real Time Operating System (RTOS):** Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

	Design and Development: Embedded system development Environment – IDE, types of file generated on cross compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.	6	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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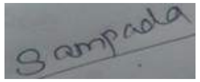

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr.Hemant Wani DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: SYIT Div:B SEMESTER: IV MONTH: DEC-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: To provide a understanding of software engineering, its basic concepts and functioning. Develop and master understanding of various models used by software industries for various purposes. Also conceptual learning of various aspects of it such as cost estimation techniques, project management, quality assurance etc.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT404, Software Engineering Unit-I	Introduction: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements.	02		Blackboard, Chalk
	Software Processes: Process and Project, Component Software Processes. Software Development Process Models. • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model.	04		Blackboard, Chalk
	Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	03		Blackboard, Chalk

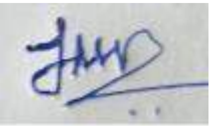
USIT404, Software Engineering Unit-II	Socio-technical system:Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Critical system: Types of critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems.	03		Blackboard, Chalk
	Requirements Engineering Processes: Feasibility study, Requirementselicitation and analysis, Requirements Validations, Requirements Management.	03		Blackboard, Chalk
	System Models: Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods	03		Blackboard, Chalk
USIT404, Software Engineering Unit-III	Architectural Design: Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures.	03	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata	Blackboard, Chalk
	User Interface Design: Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation	03		Blackboard, Chalk
				Blackboard, Chalk
	Project Management Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management.	03		
	Quality Management: Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control,	03		Blackboard, Chalk

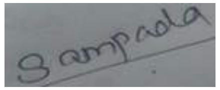
	Software Measurement and Metrics			

			Mcgraw-hill Seventh edition	
USIT404, Software Engineering Unit-IV	Verification and Validation: Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods.	04	Software Engineering, Ian Somerville Pearson Education. Ninth edition, Software Engineering Pankaj Jalote Narosa Publication , Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk
	Software Testing: System Testing, Component Testing, Test Case Design, Test Automation. Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics	04		Blackboard, Chalk
	Software Cost Estimation:Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing	04		Blackboard, Chalk
USIT404, Software Engineering Unit-V	Process Improvement: Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework.	03	Software Engineering, Ian Somerville Pearson Education. Ninth	Blackboard, Chalk

	Service Oriented Software Engineering: Services as reusable components, Service Engineering, Software Development with Services.	03	edition, Software Engineering Pankaj Jalote Narosa Publication ,	Blackboard, Chalk
	Software reuse: The reuse landscape, Application frameworks, Software product lines, COTS product reuse.	03		Blackboard, Chalk
	Distributed software engineering: Distributed systems issues, Client–server computing, Architectural patterns for distributed systems, Software as a service	03	Software engineering, a practitioner's approach Roger Pressman Tata Mcgraw-hill Seventh edition	Blackboard, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: S. Y. B. Sc. IT –B SEMESTER: IV MONTH: November-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:
a. Work with various transformations
b. Create various objects and applications using graphics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-V Computer Graphics and Applications Unit -II	**Two-Dimensional Transformations:** Transformations and Matrices, Homogeneous Coordinates and Matrix Representation of-Translations, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, The Window-to-Viewport Transformations.	7	Computer Graphics by Rajesh Maurya	Black Board
	Three-Dimensional Transformations: 3D- Scaling, Shearing, Rotation, Reflection, Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Vanishing Points, the Perspective Geometry, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	5		Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: S. Y. B. Sc. I. T –B SEMESTER: IV MONTH: November-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. Work with various transformations

b. Create various objects and applications using graphics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-V Computer Graphics and Applications Unit -V	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	3	Computer Graphics by Rajesh Maurya	PowerPoint presentation
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering.	9	Image Processing by Dhananjay	Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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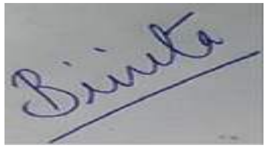

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: SY BSc IT SEMESTER:IV MONTH: JAN-MAR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	4	Introduction to embedded systems by Shibu K V	Black Board & Chalk

PAPER 2 ES UNIT 1	Microprocessors and microcontrollers ,RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS.	3		
	Sensors and actuators, communication interface, embedded firmware, other system components.	3		

	Characteristics, operational and non-operational quality attributes.	2		
UNIT 2	Application specific – washing machine, domain specific - automotive.	3	Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	Memory map, i/o map, interrupt map, processor family, external peripherals	3		
	memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory .	3		
	Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	3		
UNIT 3	Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware	4	Programming Embedded Systems in C C++ by Michael Barr	POWER POINT PRESENTATION/ Black Board & Chalk
	Input/output pins, Ports, and Circuits, External Memory.	4		
	Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	4		
UNIT 4	Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	https://www.tutorialspoint.com/embedded_systems Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	structure of embedded program, infinite loop	4		

	compiling, linking and debugging	4		
UNIT 5	Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS.	4	https://www.tutorialspoint.com/embedded_systems.	POWER POINT PRESENTATION/ Black Board & Chalk
	Embedded system development Environment – IDE, types of file generated on cross compilation, disassembler/ de-compiler,	4		
	simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMITA NITIN RODE DEPARTMENT: CS
CLASS: SYBSc(IT) DIV:C SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to : Understand programming language and tools to develop computer programs and systems that are effective solutions to problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Core Java (USIT401) Unit I	Introduction: History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit, Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler and Interpreter, java programs, java applications, main (), public, static, void, string [] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name	05	Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Google Jam board, Slides, Docs
	Data types: primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator, bitwise operator, conditional operator	03		

Paper:USIT401, unit:2, Title:Core Java	**Control Flow Statements:** The If…Else If…Else Statement, The Switch…Case Statement	3	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Iterations: The While Loop, The Do … While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Classes: Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection.	5	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
Paper:USIT401, unit:3, Title:Core Java	**Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces,	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.

	What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces.	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
	Packages: Creating Packages, Default Package, Importing Packages, Using A Package.	4	Core Java 8 for Beginners , Java: The Complete Reference	Online mode Google meet Google slides.
Paper:USIT401, unit:4, Title:Core Java	Enumerations,Arrays: Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector.		Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Online mode Google meet Google slides.
	Multithreading: the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class.			
	Exceptions: Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause			
	Byte streams: reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file			

Paper:USIT401, unit:5, Title:Core Java	Event Handling: Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes.	02	Herbert Schildt, Java2: The Complete Reference, Tata McGraw-Hill,5th Edition	Online mode Google meet Google slides.
	Abstract Window Toolkit: Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames	03		
	Layouts: Flow Layout, Grid Layout, Border Layout, Card Layout	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **PRANALI DAYANAND THAKARE** DEPARTMENT: **IT**

CLASS: **S.Y.BSc(IT)-C** SEMESTER:**IV** MONTH: **JAN-MAR** ACADEMICYEAR: **2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 2 ES UNIT 1	Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	4	Introduction to embedded systems by Shibu K V	Black Board & Chalk
	Microprocessors and microcontrollers ,RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS.	3		
	Sensors and actuators, communication interface, embedded firmware, other system components.	3		

	Characteristics, operational and non-operational quality attributes.	2		
UNIT 2	Application specific – washing machine, domain specific - automotive.	3	Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION/ Black Board & Chalk
	Memory map, i/o map, interrupt map, processor family, external peripherals	3		
	memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory .	3		
	Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV**----DEPARTMENT: **IT** CLASS: **SYBSCIT** SEMESTER:**IV**

MONTH: **NOV-MARCH** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- Be able to demonstrate an understanding of advanced knowledge of the practice of software engineering, from vision to analysis, design, validation and deployment.
- Be able to tackle complex engineering problems and tasks, using contemporary engineering principles, methodologies and tools.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT404 Software Engineering UNIT-1	**Introduction**: What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc	03	Software Engineering, edition, Ian Somerville Pearson Education. Ninth	power point, Black Board
	Software Requirements: Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements.	03		
	Software Processes: Process and Project, Component Software Processes.	02		
	Software Development Process Models. • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model	02		

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	Agile software development: Agile methods, Plan-driven and agile development, Extreme programming, Agile project management, Scaling agile methods.	02		
US404 Software Engineering UNIT-2	**Verification and Validation**: Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods.	03	Software Engineering, edition, Ian Somerville Pearson Education. Ninth	power point, Black Board
	Software Testing: System Testing, Component Testing, Test Case Design, Test Automation	03		
	Software Measurement: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics	03		
	Software Cost Estimation:Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Yashvant Keshav Patil College of Commerce
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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___**MRS. KSHITIJA. A. PALAV (MANE))**________DEPARTMENT: _______**INFORMATION TECHNOLOGY**_____________________CLASS: ____**SY.B S C(IT)-C**_______________ SEMESTER: ____**IV**___________ MONTH: ______**NOVEMBER-MARCH**_________ ACADEMIC YEAR: _____**2022-2023**________

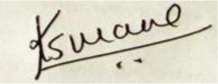
LEARNING OBJECTIVE/S:
The learners will be able to :

Understand the concept of transformations and its types in 2D and 3D in computer graphics and how those can be implemented in variation of applications including Animation. Understanding the representation of matrices, projection in CG and its usage. To implement concepts, creation and how it works with different types of animation. To make understand what is image , how it is created and how it is used in varieties of processing, To make understand the concept of image enhancement, compression, filtering and histogram of image to study subjective improvisation of image in applications to reduce the noise

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-05 (USIT405) **Computer Graphics and Animation** **Unit No -02**	**Two-Dimensional Transformations:** Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook

	Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations.			
	Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations,. Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	06	Computer Graphics by R.K Maurya.	Projector, Blackboard, PPTs, Textbook
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement,	06	Digital Image Processing by Dhananjay.	Projector, Blackboard, PPTs, Textbook

	contrast stretching, Histogram Equalization, smoothing and median Filtering.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			



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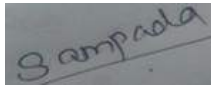

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___**MRS. KSHITIJA. A. PALAV (MANE))**________DEPARTMENT: _______**INFORMATION TECHNOLOGY**_____________________CLASS: ____**SY.B S C(IT)-C**_______________ SEMESTER: ____**IV**___________ MONTH: ______**NOVEMBER-MARCH**_________ ACADEMIC YEAR: _____**2022-2023**________

LEARNING OBJECTIVE/S:
The learners will be able to :

Understand the concept of transformations and its types in 2D and 3D in computer graphics and how those can be implemented in variation of applications including Animation. Understanding the representation of matrices, projection in CG and its usage. To implement concepts, creation and how it works with different types of animation. To make understand what is image , how it is created and how it is used in varieties of processing, To make understand the concept of image enhancement, compression, filtering and histogram of image to study subjective improvisation of image in applications to reduce the noise

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-05 (USIT405) **Computer Graphics and Animation** **Unit No -02**	**Two-Dimensional Transformations:** Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook

	Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations.			
	Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-Dimensional Rotation, Three-Dimensional Reflection, Three-Dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations,. Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.	06	Computer Graphics by R.K Maurya	Projector, Blackboard, PPTs, Textbook
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	**Computer Animation:** Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects.	06	Computer Graphics by R.K Maurya.	Projector, Blackboard, PPTs, Textbook
	Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement,	06	Digital Image Processing by Dhananjay.	Projector, Blackboard, PPTs, Textbook

	contrast stretching, Histogram Equalization, smoothing and median Filtering.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.PRANALI DAYANAND THAKARE** DEPARTMENT: **IT** CLASS: **TYBSCIT**

SEMESTER:**VI** MONTH: **NOV-MARCH** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understanding the customers priority for **quality assurance** while developing ...
that **will** be created by the organization, The scope of **Software** Testing applies to ... improvements of the processes through **learning** & innovation
Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-1	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture, Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

	Cycle, Software Quality Management, Why Software Has Defects?Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management..			
USIT601 Software Quality Assurance UNIT-3	**Unit Testing: Boundary Value Testing:** Normal Boundary ValueTesting, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing, **Equivalence Class Testing:** Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing:** Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations,**Data Flow Testing:** Define/Use Testing, Slice-Based Testing,Program Slicing Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
USIT601 Software Quality Assurance UNIT-5	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.	04	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing,Regression Testing, Error Handling Testing, Manual Support Testing,Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing,Parallel Testing, Execution Testing,	08	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point
	Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage,Object Oriented Application Testing, Testing of Internal Controls COTS Testing, Client Server Testing, Web Application Testing,Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: MRS. ARCHANA SANTOSH RAUT DEPARTMENT: IT CLASS: TYIT (C)

SEMESTER: VI MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business Intelligence Unit I	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint
	Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit II	**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	05	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data preparation: Data validation, Data transformation, Data reduction	03	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit V	**Knowledge Management:** Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint
	Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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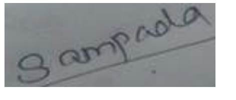

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof Gayatree Karnik DEPARTMENT: Information technology CLASS: TYIT (A)

SEMESTER: VI MONTH: November to March ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand Legal aspects of Information technology
- Conceptual arrangements of Laws and amendments
- Pass on the legal information about how one should use technology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Unit 2	Contracts in the Infotech World: Contracts in the Infotech World, Click-Wrap and Shrink-Wrap Contract: Status under the Indian Contract Act, 1872, Contract Formation Under the Indian Contract Act, 1872, Contract Formation on the Internet, Terms and Conditions of Contracts. Jurisdiction in the Cyber World: Questioning the Jurisdiction and Validity of the Present Law of Jurisdiction, Civil Law of Jurisdiction in India, Cause of Action, Jurisdiction and the Information Technology Act,2000, Foreign Judgements in India, Place of Cause of Action in	12	Cyber Law Simplified – Vivek Sood	Computer and Powerpoint,Chalk & Board

	Contractual and IPR Disputes, Exclusion Clauses in			

UNIT 3	Contracts, Abuse of Exclusion Clauses, Objection of Lack of Jurisdiction, Misuse of the Law of Jurisdiction, Legal Principles on Jurisdiction in the United State of America, Jurisdiction Disputes w.r.t. the Internet in the United State of America.			
Unit 4	Battling Cyber Squatters and Copyright Protection in the Cyber World: Concept of Domain Name and Reply to Cyber Squatters, Meta- Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.	12	Cyber Law Simplified – Vivek Sood	Chalk & Board

	E-Commerce Taxation: Real Problems in the Virtual World: A Tug of War on the Concept of 'Permanent Establishment', Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The	12	Cyber Law Simplified – Vivek Sood	Chalk & Board
Unit 5	Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance. Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E- Governance in India: A Warning to Babudom!			

	The Indian Evidence Act of 1872 v. Information Technology Act, 2000: Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and Reserve Bank of India Act, 1934. Protection of Cyber Consumers in India: Are Cyber Consumers 12 Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services	12	Cyber Law Simplified – Vivek Sood	Chalk & Board

	Provided to a Consumer in India. Amendments in Indian IT Act 2000			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**Ms. Prajakta Hatkar** DEPARTMENT: **IT** CLASS: **TYBSc IT** SEMESTER: **VI**

MONTH: **NOV-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- ✓ Understanding the customers priority for quality assurance while developing that will be created by the organization
- ✓ The scope of Software Testing applies to improvements of the processes through learning & innovation
- ✓ Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-2	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing,Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench,Important Features of Testing Process, Misconceptions About Testing,Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation
	Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy,	06	Software Testing:	Power Point Presentation

	Developing Testing Methodologies (Test Plan), Testing Process,			

	Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing		Principles, Techniques and Tools M. G. Limaye	
USIT601 Software Quality Assurance UNIT-4	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation,Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation
	V-test Model: Introduction, V-model for software, Testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding,VV Model, Critical Roles and Responsibilities.	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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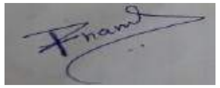

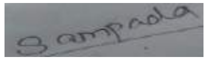

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Security In Computing** DEPARTMENT: Information Technology.

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To provide security against users, software, devices, operating systems, networks, cloud and data.

The learners will be able to :

- To understand the concept of Information Security.
- To know how to use Security Methodology, Strategy and Tactics.
- To analyze Risk by identifying possible Threat, Types of Attacks.
- To learn about Secure Design Principles like the CIA Triad and Other Models, Defense Models.
- To know Intrusion Detection and Prevention Systems.
- To learn Voice over IP (VoIP) and PBX Security, TEM (Telecom Expense Management).
- To understand Operating System Security Models, International Standards for Operating System Security.
- To have information related to Virtual Machines and Cloud Computing.
- To study Secure Application Design in Web Application Security, Client Application Security, Remote Administration Security.
- To know how to implement Physical Security by Choosing Site Location for Security, Securing Assets - Locks and Entry Controls, Physical Intrusion Detection.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USIT602	**Information Security Overview**: The Importance of Information Protection, The Evolution of Information Security, Justifying Security	12	1. The Complete Reference: Information Security	Black Board, Projector, Google Meet PPT

Security In Computing UNIT-1	Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls. **Risk Analysis**: Threat Definition, Types of Attacks, Risk Analysis. **Secure Design Principles**: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.		2. Essential Cybersecurity Science 3. Principles of Computer Security: CompTIA Security+ and Beyond	
USIT603 **Security In Computing** UNIT-4	**Intrusion Detection and Prevention Systems**: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM). **Voice over IP (VoIP) and PBX Security**: Background, VoIP Components,VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management. **Operating System Security Models**: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	12	1. The Complete Reference: Information Security 2. Essential Cybersecurity Science 3. Principles of Computer Security: CompTIA Security+ and Beyond	Black Board, Projector, Google Meet PPT

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USIT603 **Security In Computing** UNIT-5	**Virtual Machines and Cloud Computing**: Virtual Machines, Cloud Computing. **Secure Application Design**: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security.	12	1. The Complete Reference: Information Security 2. Essential Cybersecurity Science	Black Board, Projector, Google Meet PPT
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.		3. Principles of Computer Security: CompTIA Security+ and Beyond	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: Ms. SONALI DATTATRAY SALVANIKAR DEPARTMENT: IT CLASS: TYIT (B)

SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint

Intelligence Unit I	**Decision support systems:** Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:GAURI KETAN THAKUR DEPARTMENT:-IT

CLASS: TY BSc IT DIV-B(BI) SEMESTER:SEM-6 MONTH:DEC-MAR ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

- Introduce the concepts and components of Business Intelligence (BI)
- Evaluate the technologies that make up BI (data warehousing, OLAP)
- Define how BI will help an organization and whether it will help yours
- Identify the technological architecture that makes up BI systems
- Plan the implementation of a BI system

PAPER, UNIT, TITLE		SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/ S	TEACHING METHOD/ ICT TOOLS USED
Business Intelligence Unit 1		**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	3	Business Intelligence : Data Mining and Optimization for Decision Making	BLACK BOARD AND CHALK
		Data mining: Definition of data mining, Representation of input data ,Data mining process, Analysis methodologies	5		

Unit 5		**Data preparation:** Data validation, Data transformation, Data reduction	4		
		Knowledge Management: Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	6	Decision support and Business Intelligence Systems	BLACK BOARD AND CHALK POWER POINT PRESENTATION
		Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: TYIT SEMESTER: VI MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop the understanding of relationship between commerce and cyberspace

To enable learner to understand, explore, and acquire a critical understanding Cyber Law.

To give learners in depth knowledge of Information Technology Act and legal frame work of Right to Privacy, Data Security and Data Protection

To make learner conversant with the social and intellectual property issues emerging from 'Cyberspace

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-07 Cyber Law Unit 3	**Battling Cyber Squatters and Copyright Protection in the Cyber World:** Concept of Domain Name and Reply to Cyber Squatters, Meta-Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign Works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

	Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.			
Paper-07 Cyber Law Unit 4	**E-Commerce Taxation:** Real Problems in the Virtual World: A Tug of War on the Concept of „Permanent Establishment", Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

	Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E-Governance in India: A Warning to Babudom!	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
Paper-07 Cyber Law Unit 5	**The Indian Evidence Act of 1872 v. Information Technology Act, 2000:** Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

	Reserve Bank of India Act, 1934.			
	Protection of Cyber Consumers in India: Are Cyber Consumers Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services Provided to a Consumer in India. Amendments in Indian IT Act 2000	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -I	**Information Security Overview** : The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls.	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Risk Analysis: Threat Definition, Types of Attacks, Risk Analysis.	4		PowerPoint presentation / Black Board
	Secure Design Principles: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.	4		PowerPoint presentation / Black Board

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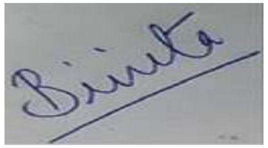
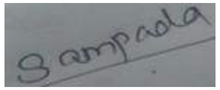
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -II	**Authentication and Authorization**: Authentication, Authorization	3	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Encryption: A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure.	5		PowerPoint presentation / Black Board
	Storage Security: Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices.	2		PowerPoint presentation / Black Board
	Database Security: General Database Security Concepts, Understanding Database Security Layers, Understanding Database-Level Security, Using Application Security, Database Backup and Recovery, Keeping Your Servers Up to Date, Database Auditing and Monitoring.	2		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -III	**Secure Network Design**: Introduction to Secure Network Design, Performance, Availability, Security.	3	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Network Device Security: Switch and Router Basics, Network Hardening.	3		PowerPoint presentation / Black Board
	Firewalls: Overview, The Evolution of Firewalls, Core Firewall Functions, Additional Firewall Capabilities, Firewall Design.	3		PowerPoint presentation / Black Board
	Wireless Network Security: Radio Frequency Security Basics, Data-Link Layer Wireless Security Features, Flaws, and Threats, Wireless Vulnerabilities and Mitigations, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways.	3		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -IV	**Intrusion Detection and Prevention Systems**: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM).	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Voice over IP (VoIP) and PBX Security: Background, VoIP Components, VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management.	4		PowerPoint presentation / Black Board
	Operating System Security Models: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	4		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: T. Y. B. Sc. IT –B SEMESTER: VI MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

a. Work with various concepts of Security

b. Work with domains of security

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security in Computing Unit -V	**Virtual Machines and Cloud Computing**: Virtual Machines, Cloud Computing.	4	The Complete Reference: Information Security by Mark Rhodes-Ousley	PowerPoint presentation / Black Board
	Secure Application Design: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security.	4		PowerPoint presentation / Black Board
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.	4		PowerPoint presentation / Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)- BUSINESS INTELLIGENCE

NAME OF THE STAFF: DR.BRIJESH YATINDRA JOSHI   DEPARTMENT: IT   CLASS: TYIT (C)

SEMESTER: VI   MONTH: DEC-MARCH   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the use of business intelligence in real life.
- Describe the different mathematical models to develop decision making systems.
- Get the difference between supervised learning and unsupervised learning techniques.
- Understand the use of mathematical models in relational marketing, support chain optimization, CCR model.
- Familiar with knowledge management and Artificial intelligence and expert systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT603, Business Intelligence Unit I	**Business intelligence:** Effective and timely decisions, Data, information and knowledge, The role of mathematical models, Business intelligence architectures, Ethics and business intelligence	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, Powerpoint
	Decision support systems: Definition of system, Representation of the decision-making process, Evolution of information systems, Definition of decision support system, Development of a decision support system	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

USIT603, Business Intelligence Unit II	**Mathematical models for decision making:** Structure of mathematical models, Development of a model, Classes of models	05	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data mining: Definition of data mining, Representation of input data , Data mining process, Analysis methodologies	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data preparation: Data validation, Data transformation, Data reduction	03	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit III	**Classification**: Classification problems, Evaluation of classification models, Bayesian methods, Logistic regression, Neural networks, Support vector machines	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Clustering: Clustering methods, Partition methods, Hierarchical methods, Evaluation of clustering models	06	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
USIT603, Business Intelligence Unit IV	**Marketing models**: Relational marketing, Sales force management,	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Logistic and production models: Supply chain optimization, Optimization models for logistics planning, Revenue management systems.	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint
	Data envelopment analysis: Efficiency measures, Efficient frontier, The CCR model, Identification of good operating practices	04	Business Intelligence: Data Mining and Optimization for Decision Making by Carlo Vercellis, Wiley, First, 2009	Black Board and chalk, PowerPoint

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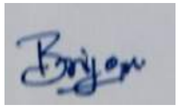
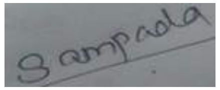
USIT603, Business Intelligence Unit V	**Knowledge Management:** Introduction to Knowledge Management, Organizational Learning and Transformation, Knowledge Management Activities, Approaches to Knowledge Management, Information Technology (IT) In Knowledge Management, Knowledge Management Systems Implementation, Roles of People in Knowledge Management	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint
	Artificial Intelligence and Expert Systems: Concepts and Definitions of Artificial Intelligence, Artificial Intelligence Versus Natural Intelligence, Basic Concepts of Expert Systems, Applications of Expert Systems, Structure of Expert Systems, Knowledge Engineering, Development of Expert Systems	06	Decision support and Business Intelligence Systems by Efraim Turban, Ramesh Sharda, Dursun Delen , Pearson,Ninth,2011	Black Board and chalk, PowerPoint

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: INFORMATION TECHNOLOGY CLASS: TYIT-C

SEMESTER: VI MONTH: JANUARY-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:
The learners will be able to:

- Understand the concepts of information security, Risk Analysis.
- Understand various security areas such as storage, database, Physical, application, operating system.
- Be familiar about the basic designing of secure network.
- Detect intrusion and how to prevent it, introduction to virtual machines and cloud computing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT602, Unit 1, Security in Computing	Information Security Overview: The Importance of Information Protection, The Evolution of Information Security, Justifying Security Investment, Security Methodology, How to Build a Security Program, The Impossible Job, The Weakest Link, Strategy and Tactics, Business Processes vs. Technical Controls.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Risk Analysis: Threat Definition, Types of Attacks, Risk Analysis	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Secure Design Principles: The CIA Triad and Other Models, Defense Models, Zones of Trust, Best Practices for Network Defense.	04	The Complete Reference: Information Security by Mark	PowerPoint Presentation

			Rhodes Ousley	

USIT602, Unit 2, Security in Computing	Authentication and Authorization: Authentication, Authorization	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Encryption: A Brief History of Encryption, Symmetric-Key Cryptography, Public Key Cryptography, Public Key Infrastructure.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Storage Security: Storage Security Evolution, Modern Storage Security, Risk Remediation, Best Practices.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Database Security: General Database Security Concepts, Understanding Database Security Layers, Understanding DatabaseLevel Security, Using Application Security, Database Backup and Recovery, Keeping Your Servers Up to Date, Database Auditing and Monitoring.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

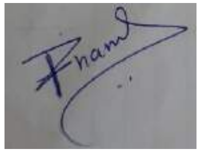
USIT602, Unit 3, Security in Computing	Secure Network Design: Introduction to Secure Network Design, Performance, Availability, Security.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Network Device Security: Switch and Router Basics, Network Hardening.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

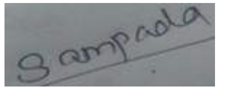
	Firewalls: Overview, The Evolution of Firewalls, Core Firewall 12 38 Functions, Additional Firewall Capabilities, Firewall Design.	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Wireless Network Security: Radio Frequency Security Basics, DataLink Layer Wireless Security Features, Flaws, and Threats, Wireless Vulnerabilities and Mitigations, Wireless Network Hardening Practices and Recommendations, Wireless Intrusion Detection and Prevention, Wireless Network Positioning and Secure Gateways	03	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Intrusion Detection and Prevention Systems: IDS Concepts, IDS Types and Detection Models, IDS Features, IDS Deployment Considerations, Security Information and Event Management (SIEM).	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

USIT602, Unit 4, Security in Computing	Voice over IP (VoIP) and PBX Security: Background, VoIP Components,VoIP Vulnerabilities and Countermeasures, PBX, TEM: Telecom Expense Management	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Operating System Security Models: Operating System Models, Classic Security Models, Reference Monitor, Trustworthy Computing, International Standards for Operating System Security.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
USIT602, Unit 5, Security in Computing	Virtual Machines and Cloud Computing: Virtual Machines, Cloud Computing.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

	Secure Application Design: Secure Development Lifecycle, Application Security Practices, Web Application Security, Client Application Security, Remote Administration Security	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation
	Physical Security: Classification of Assets, Physical Vulnerability Assessment, Choosing Site Location for Security, Securing Assets: Locks and Entry Controls, Physical Intrusion Detection.	04	The Complete Reference: Information Security by Mark Rhodes Ousley	PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Asst. Prof. Hemant Wani DEPARTMENT: Information Technology

CLASS: TYIT SEMESTER: VI MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop the understanding of relationship between commerce and cyberspace

To enable learner to understand, explore, and acquire a critical understanding Cyber Law.

To give learners in depth knowledge of Information Technology Act and legal frame work of Right to Privacy, Data Security and Data Protection

To make learner conversant with the social and intellectual property issues emerging from ‘Cyberspace

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VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-07 Cyber Law Unit 1	**Power of Arrest Without Warrant Under the IT Act, 2000:** A Critique, Crimes of this Millennium, Section 80 of the IT Act, 2000 – A Weapon or a Farce? Forgetting the Line Between Cognizable and Non Cognizable Offences, Necessity of Arrest without Warrant from Any Place, Public or Otherwise, Check and Balances Against Arbitrary Arrests, Arrest for "About to Commit" an Offence Under the IT Act: A Tribute to Draco, Arrest, But NO Punishment! **Cyber Crime and Criminal Justice:** Penalties, Adjudication and Appeals Under the IT Act, 2000: Concept of "Cyber Crime " and the IT Act , 2000, Hacking, Teenage Web Vandals, Cyber Fraud and Cyber Cheating, Virus on the Internet, Defamation, Harassment and Email Abuse, Cyber Pornography, Other IT Act Offences, Monetary Penalties, Adjudication and Appeals Under IT Act , 2000, Network Service Providers, Jurisdiction and Cyber Crime, Nature of Cyber Criminality, Strategies to Tackle Cyber Crime and Trends, Criminal Justice in India and Implications on Cyber Crime	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 2	**Contracts in the InfoTech World:** Contracts in the InfoTech World, Click-Wrap and Shrink-Wrap Contract: Status under the Indian Contract Act, 1872, Contract Formation Under the Indian Contract Act, 1872, Contract Formation on the Internet, Terms and Conditions of Contracts. **Jurisdiction in the Cyber World:** Questioning the Jurisdiction and Validity of the Present Law of Jurisdiction, Civil Law of Jurisdiction in India, Cause of Action, Jurisdiction and the Information Technology Act,2000, Foreign Judgments in India, Place of Cause of Action in Contractual and IPR Disputes, Exclusion Clauses in Contracts, Abuse of Exclusion Clauses, Objection of Lack of Jurisdiction, Misuse of the Law of Jurisdiction, Legal Principles on Jurisdiction in the United State of America, Jurisdiction Disputes w.r.t. the Internet in the United State of America	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
Paper-07 Cyber Law Unit 3	**Battling Cyber Squatters and Copyright Protection in the Cyber World:** Concept of Domain Name and Reply to Cyber Squatters, Meta-Tagging, Legislative and Other Innovative Moves Against Cyber Squatting, The Battle Between Freedom and Control on the Internet, Works in Which Copyright Subsists and meaning of Copyright, Copyright Ownership and Assignment, License of Copyright, Copyright Terms and Respect for Foreign Works, Copyright Infringement, Remedies and Offences, Copyright Protection of Content on the Internet; Copyright Notice, Disclaimer and Acknowledgement, Downloading for Viewing Content on the Internet, Hyper-Linking and Framing, Liability of ISPs for Copyright Violation in the Cyber World: Legal Developments in the US, Napster and its Cousins: A Revolution on the Internet but a Crisis for Copyright Owners, Computer Software Piracy.	12	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 4	**E-Commerce Taxation:** Real Problems in the Virtual World: A Tug of War on the Concept of „Permanent Establishment", Finding the PE in Cross Border E-Commerce, The United Nations Model Tax Treaty, The Law of Double Taxation Avoidance Agreements and Taxable Jurisdiction Over Non-Residents, Under the Income Tax Act, 1961, Tax Agents of Non-Residents under the Income Tax Act,1961 and the Relevance to E-Commerce, Source versus Residence and Classification between Business Income and Royalty, The Impact of the Internet on Customer Duties, Taxation Policies in India: At a Glance.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
	Digital Signature, Certifying Authorities and E-Governance: Digital Signatures, Digital Signature Certificate, Certifying Authorities and Liability in the Event of Digital Signature Compromise, E-Governance in India: A Warning to Babudom!	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

Paper-07 Cyber Law Unit 5	**The Indian Evidence Act of 1872 v. Information Technology Act, 2000:** Status of Electronic Records as Evidence, Proof and Management of Electronic Records; Relevancy, Admissibility and Probative Value of E-Evidence, Proving Digital Signatures, Proof of Electronic Agreements, Proving Electronic Messages, Other Amendments in the Indian Evidence Act by the IT Act, Amendments to the Bankers Books Evidence Act, 1891 and Reserve Bank of India Act, 1934.	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk
	Protection of Cyber Consumers in India: Are Cyber Consumers Covered Under the Consumer Protection Act? Goods and Services, Consumer Complaint, Defect in Goods and Deficiency in Services, Restrictive and Unfair Trade Practices, Instances of Unfair Trade Practices, Reliefs Under CPA, Beware Consumers, Consumer Foras, Jurisdiction and Implications on cyber Consumers in India, Applicability of CPA to Manufacturers, Distributors, Retailers and Service Providers Based in Foreign Lands Whose Goods are Sold or Services Provided to a Consumer in India. Amendments in Indian IT Act 2000	6	Cyber Law Simplified Vivek Sood TMH Education	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: IT
CLASS: TYIT-C SEMESTER: IV MONTH: DECEMBER TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand and evaluate efficiency of the Geographic Information System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Principles of Geographic Information Systems (USIT604) Unit I	A Gentle Introduction to GIS The nature of GIS: Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation. The real world and representations of it: Models and modelling, Maps, Databases, Spatial databases and spatial analysis Geographic Information and Spatial Database Models and Representations of the real-world Geographic Phenomena: Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects Organizing and Managing Spatial Data the Temporal Dimension	6		

Principles of Geographic Information Systems (USIT604) Unit II	Data Management and Processing Systems Hardware and Software Trends Geographic Information Systems: GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI) Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data presentation	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Database management Systems: Reasons for using a DBMS, Alternatives for data management, the relational data model, Querying the relational database. GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality	6		
Principles of Geographic Information Systems (USIT604) Unit III	Spatial Referencing and Positioning Spatial Referencing: Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board
	Data Entry and Preparation Spatial Data Input: Direct spatial data capture, Indirect spatial data capture, obtaining spatial data elsewhere Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, temporal accuracy, Lineage, Completeness, Logical consistency Data Preparation: Data checks and repairs, combining data from multiple sources Point Data Transformation: Interpolating discrete data, Interpolating continuous data	6		
Principles of Geographic Information Systems (USIT604) Unit IV	Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement: Measurement, Spatial selection queries, Classification Overlay functions: Vector overlay operators,Raster overlay operators Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	6	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board

	Analysis: Network analysis, interpolation, terrain modelling GIS and Application models:GPS, Open GIS Standards, GIS Applications and Advances Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	6		
Principles of Geographic Information Systems (USIT604) Unit V	Data Visualization GIS and Maps, The Visualization Process Visualization Strategies: Present or explore? The cartographic toolbox: What kind of data do I have? How can I map my data? How to map? How to map qualitative data, how to map quantitative data, How to map the terrain elevation, How to map time series Map Cosmetics, Map Dissemination	12	Principles of Geographic Information Systems an Introductory Text Book	PPT, Chalk and black board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: TYBSc(IT) DIV:C SEMESTER: VI MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

The learners will be able to : Understand fundamentals of testing, Level of testing software, verification and validation models and other special tests which helps to enhance knowledge and keep the software uptodate.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper:USIT601, unit:2, Title:SQA	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing, Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench, Important Features of Testing Process, Misconceptions About Testing,	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods, Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy,	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

	Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing.	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

Paper:USIT601, unit:3, Title:SQA	**Unit Testing**: Boundary Value Testing: Normal Boundary Value Testing, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples, Random Testing, Guidelines for Boundary Value Testing,	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Equivalence Class Testing: Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing**: Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations, **Data Flow Testing:** Define/Use Testing, Slice-Based Testing, Program Slicing Tools.	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
Paper:USIT601, unit:4, Title:SQA	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation, Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	6	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

	V-test Model: Introduction, V-model for software, testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding, VV Model, Critical Roles and Responsibilities.	6	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
Paper:USIT601, unit:5, Title:SQA	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.	3	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing, Regression Testing, Error Handling Testing, Manual Support Testing, 12 36 Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing, Parallel Testing, Execution Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,	5	Software Testing: Principles, Techniques and Tools	PPT, Blackboard
	Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage, Object Oriented Application Testing, Testing of Internal Controls, COTS Testing, Client Server Testing, Web Application Testing, Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.	4	Software Testing: Principles, Techniques and Tools	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. KSHITIJA. A. PALAV (MANE)** DEPARTMENT: **INFORMATION TECHNOLOGY** CLASS: **T.Y.B.SC (IT)-A**

SEMESTER: **VI** MONTH: **DECEMBER-APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Geographical Information System for processing standard geographic data.
- Make you understand where GIS system can be applied. Learning about different applications (example: GPS).
- How geographic data are capture, updated, profiled, stored and represented in the system.
- Enable to understand software and hardware trends, DBMS and varieties of Models.
- To understand how geographic data can be display with help of Maps and to understand the making of Maps.
- Studying about spatial referencing and positioning of data in system.
- To understand different operations and functions on data and to analyze and explore information in the system.
- To provide better visualization of data both in vector and raster manner.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-04 (USIT604) **Principles of Geographic**	**A Gentle Introduction to GIS** **The nature of GIS:** Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation. **The real world and representations of it:** Models and	04	Principles of Geographic Information Systems- An Introductory	Projector, Blackboard, PPTs, Textbook

Information Systems **Unit No -01**	modelling, Maps, Databases, Spatial databases and spatial analysis		Text Book By Editors: Otto Huisman and Rolf A. , The International Institute of Geoinformation Science and Earth Observation Introduction to Geographic Information Systems Chang Kang-tsung McGrawHill	
	Geographic Information and Spatial Database Models and Representations of the real world **Geographic Phenomena:** Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	03		
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects	03		
	Organizing and Managing Spatial Data **The Temporal Dimension**	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -02	**Data Management and Processing Systems** **Hardware and Software Trends** **Geographic Information Systems:** GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)	04	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto	Projector, Blackboard,Textbook PPTs.
	Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.	03		

	Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database.	03	Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -03	**Spatial Referencing and Positioning** **Spatial Referencing:** Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	03		
	Data Entry and Preparation **Spatial Data Input:** Direct spatial data capture, Indirect spatial data captiure, Obtaining spatial data elsewhere	02		
	Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, Temporal accuracy, Lineage, Completeness, Logical consistency	02		
	Data Preparation: Data checks and repairs, Combining data from multiple sources	01		
	Point Data Transformation: Interpolating discrete data, Interpolating continuous data	01		

	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -04	**Spatial Data Analysis** **Classification of analytical GIS Capabilities** **Retrieval, classification and measurement:** Measurement, Spatial selection queries, Classification	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Overlay functions: Vector overlay operators,Raster overlay operators	01		
	Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	03		
	Analysis: Network analysis, interpolation, terrain modelling	01		
	GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances	02		
	Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -05	**Data Visualization** **GIS and Maps, The Visualization Process** **Visualization Strategies: Present or explore?**	04	Principles of Geographic Information	Projector, Blackboard, Textbook PPTs.

	The cartographic toolbox: What kind of data do I have?, How can I map my data?	03	Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	How to map?: How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series	03		
	Map Cosmetics, Map Dissemination	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. PRANALI DAYANAND THAKARE** DEPARTMENT: **INFORMATION TECHNOLOGY**

CLASS: **T.Y.B.SC (IT)-B** SEMESTER: **VI** MONTH: **DECEMBER-APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the Geographical Information System for processing standard geographic data.
- Make you understand where GIS system can be applied. Learning about different applications (example: GPS).
- How geographic data are capture, updated, profiled, stored and represented in the system.
- Enable to understand software and hardware trends, DBMS and varieties of Models.
- To understand how geographic data can be display with help of Maps and to understand the making of Maps.
- Studying about spatial referencing and positioning of data in system.
- To understand different operations and functions on data and to analyze and explore information in the system.
- To provide better visualization of data both in vector and raster manner.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-04 (USIT604)	**A Gentle Introduction to GIS** **The nature of GIS:** Some fundamental observations, Defining GIS, GISystems, GIScience and GIApplications, Spatial data and Geoinformation.	04	Principles of Geographic Information Systems- An	Projector, Blackboard, PPTs, Textbook

Principles of Geographic Information	**The real world and representations of it:** Models and modelling, Maps, Databases, Spatial databases and spatial analysis		Introductory Text Book By	

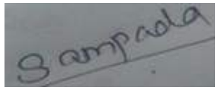
Systems **Unit No -01**	**Geographic Information and Spatial Database** **Models and Representations of the real world** **Geographic Phenomena:** Defining geographic phenomena, types of geographic phenomena, Geographic fields, Geographic objects, Boundaries	03	Editors: Otto Huisman and Rolf A. , The International Institute of Geoinformation Science and Earth Observation Introduction to Geographic Information Systems Chang Kang-tsung McGrawHill	
	Computer Representations of Geographic Information: Regular tessellations, irregular tessellations, Vector representations, Topology and Spatial relationships, Scale and Resolution, Representation of Geographic fields, Representation of Geographic objects	03		
	Organizing and Managing Spatial Data **The Temporal Dimension**	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -02	**Data Management and Processing Systems** **Hardware and Software Trends** **Geographic Information Systems:** GIS Software, GIS Architecture and functionality, Spatial Data Infrastructure (SDI)	04	Principles of Geographic Information Systems- An Introductory Text Book By	Projector, Blackboard,Textbook PPTs.
	Stages of Spatial Data handling: Spatial data handling and preparation, Spatial Data Storage and maintenance, Spatial Query and Analysis, Spatial Data Presentation.	03		

	Database management Systems: Reasons for using a DBMS, Alternatives for data management, The relational data model, Querying the relational database.	03	Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	GIS and Spatial Databases: Linking GIS and DBMS, Spatial database functionality.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -03	**Spatial Referencing and Positioning** **Spatial Referencing:** Reference surfaces for mapping, Coordinate Systems, Map Projections, Coordinate Transformations	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Satellite-based Positioning: Absolute positioning, Errors in absolute positioning, Relative positioning, Network positioning, code versus phase measurements, Positioning technology	03		
	Data Entry and Preparation **Spatial Data Input:** Direct spatial data capture, Indirect spatial data captiure, Obtaining spatial data elsewhere	02		
	Data Quality: Accuracy and Positioning, Positional accuracy, Attribute accuracy, Temporal accuracy, Lineage, Completeness, Logical consistency	02		
	Data Preparation: Data checks and repairs, Combining data from multiple sources	01		

	Point Data Transformation: Interpolating discrete data, Interpolating continuous data	01		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -04	**Spatial Data Analysis** **Classification of analytical GIS Capabilities** **Retrieval, classification and measurement:** Measurement, Spatial selection queries, Classification	03	Principles of Geographic Information Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	Projector, Blackboard, Textbook PPTs.
	Overlay functions: Vector overlay operators,Raster overlay operators	01		
	Neighbourhood functions: Proximity computations, Computation of diffusion, Flow computation, Raster based surface analysis	03		
	Analysis: Network analysis, interpolation, terrain modelling	01		
	GIS and Application models: GPS, Open GIS Standards, GIS Applications and Advances	02		
	Error Propagation in spatial data processing: How Errors propagate, Quantifying error propagation	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12			
Unit No -05	**Data Visualization** **GIS and Maps, The Visualization Process** **Visualization Strategies: Present or explore?**	04	Principles of Geographic	Projector, Blackboard, Textbook PPTs.

			Information	
	The cartographic toolbox: What kind of data do I have?, How can I map my data?	03	Systems- An Introductory Text Book By Editors: Otto Huisman and Rolf A. The International Institute of Geoinformation Science and Earth Observation	
	How to map?: How to map qualitative data, How to map quantitative data, How to map the terrain elevation, How to map time series	03		
	Map Cosmetics, Map Dissemination	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **TYBSCIT** SEMESTER:**VI**

MONTH: **NOV-MARCH** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

Understanding the customers priority for **quality assurance** while developing ...
that **will** be created by the organization, The scope of **Software** Testing applies to ... improvements of the processes through **learning** & innovation
Understand Manual and automated testing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT601 Software Quality Assurance UNIT-1	**Introduction to Quality:** Historical Perspective of Quality, What is Quality? (Is it a fact or perception?), Definitions of Quality, Core Components of Quality, Quality View, Financial Aspect of Quality, Customers, Suppliers and Processes, Total Quality Management (TQM), Quality Principles of Total Quality Management, Quality Management Through Statistical Process Control, Quality Management Through Cultural Changes, Continual (Continuous) Improvement Cycle, Quality in Different Areas, Benchmarking and Metrics, Problem Solving Techniques, Problem Solving Software Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Software Quality: Introduction, Constraints of Software Product Quality Assessment, Customer is a King, Quality and Productivity Relationship, Requirements of a Product, Organisation Culture, Characteristics of Software, Software Development Process, Types of Products, Schemes of Criticality Definitions, Problematic Areas of Software Development Life	05	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

	Cycle, Software Quality Management, Why Software Has Defects?Processes Related to Software Quality, Quality Management System Structure, Pillars of Quality Management System, Important Aspects of Quality Management..			
USIT601 Software Quality Assurance UNIT-2	**Fundamentals of testing:** Introduction, Necessity of testing, What is testing? Fundamental test process, The psychology of testing,Historical Perspective of Testing, Definitions of Testing, Approaches to Testing, Testing During Development Life Cycle, Requirement Traceability Matrix, Essentials of Software Testing, Workbench,Important Features of Testing Process, Misconceptions About Testing,Principles of Software Testing, Salient Features of Good Testing, Test Policy, Test Strategy or Test Approach, Test Planning, Testing Process and Number of Defects Found in Testing, Test Team Efficiency, Mutation Testing, Challenges in Testing, Test Team Approach, Process Problems Faced by Testing, Cost Aspect of Testing, Establishing Testing Policy, Methods	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
	Structured Approach to Testing, Categories of Defect, Defect, Error, or Mistake in Software, Developing Test Strategy, Developing Testing Methodologies (Test Plan), Testing Process, Attitude Towards Testing (Common People Issues), Test Methodologies/Approaches, People Challenges in Software Testing, Raising Management Awareness for Testing, Skills Required by Tester, Testing throughout the software life cycle, Software development models, Test levels, Test types, the targets of testing, Maintenance testing	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet

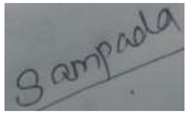
USIT601	**Unit Testing: Boundary Value Testing:** Normal Boundary ValueTesting, Robust Boundary Value Testing, Worst-Case Boundary ValueTesting, Special Value Testing, Examples,	05	Software Testing:	power point,google meet

Software Quality Assurance UNIT-3	Random Testing, Guidelines for Boundary Value Testing, **Equivalence Class Testing:** Equivalence Classes, Traditional Equivalence Class Testing, Improved Equivalence Class Testing, Edge Testing, Guidelines and Observations.		Principles, Techniques and Tools M. G. Limaye	
	Decision Table–Based Testing: Decision Tables, Decision Table Techniques, Cause-and-Effect Graphing, Guidelines and Observations, **Path Testing:** Program Graphs, DD-Paths, Test Coverage Metrics, Basis Path Testing, Guidelines and Observations,**Data Flow Testing:** Define/Use Testing, Slice-Based Testing,Program Slicing Tools.	07	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point,google meet
USIT601 Software Quality Assurance UNIT-4	**Software Verification and Validation:**Introduction, Verification, Verification Workbench, Methods of Verification, Types of reviews on the basis od Stage Phase, Entities involved in verification, Reviews in testing lifecycle, Coverage in Verification, Concerns of Verification, Validation, Validation Workbench, Levels of Validation,Coverage in Validation, Acceptance Testing, Management of Verification and Validation, Software development verification and validation activities	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

	V-test Model: Introduction, V-model for software, Testing during Proposal stage, Testing during requirement stage, Testing during test planning phase, Testing during design phase, Testing during coding,VV Model, Critical Roles and Responsibilities.	06	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point
USIT601 Software Quality Assurance	**Levels of Testing:** Introduction, Proposal Testing, Requirement Testing, Design Testing, Code Review, Unit Testing, Module Testing, Integration Testing, Big-Bang Testing, Sandwich	04	Software Testing: Principles, Techniques	power point

UNIT-5	Testing, Critical Path First, Sub System Testing, System Testing, Testing Stages.		and Tools M. G. Limaye	
	Special Tests: Introduction, GUI testing, Compatibility Testing, Security Testing, Performance Testing, Volume Testing, Stress Testing, Recovery Testing, Installation Testing, Requirement Testing,Regression Testing, Error Handling Testing, Manual Support Testing,Intersystem Testing, Control Testing, Smoke Testing, Adhoc Testing,Parallel Testing, Execution Testing, Operations Testing, Compliance Testing, Usability Testing, Decision Table Testing, Documentation Testing, Training testing, Rapid Testing, Control flow graph, Generating tests on the basis of Combinatorial Designs, State Graph,Risk Associated with New Technologies, Process maturity level of Technology, Testing Adequacy of Control in New technology usage,Object Oriented Application Testing, Testing of Internal Controls COTS Testing, Client Server Testing, Web Application Testing,Mobile Application Testing, eBusiness eCommerce Testing, Agile Development Testing, Data Warehousing Testing.	08	Software Testing: Principles, Techniques and Tools M. G. Limaye	power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF Archana Malpathak DEPARTMENT:Mathematics _(IT)__CLASS: FYIT SEMESTER: _**II** MONTH: ___FEB tO April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT 3	Gauss Jordan Method, Gauss-Seidel Method, Trapezoidal Rule, Simpson's 1/3 rd and 3/8th Rule, Numerical differentiation for Newton's Forward Difference Interpolation and Backward Difference Interpolation	12	Numerical Techniques- R.M Baphana ,	Blackboard and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: IT
CLASS: FYIT SEMESTER: II MONTH: JANUARY TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessors

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT202: Fundamentals of Micro Processor and Microcontrollers **Unit 1**	**Microprocessor, microcomputers, and Assembly Language:** Microprocessor,Microprocessor Instruction Set and Computer Languages, From Large Computers to Single-Chip Microcontrollers, Applications.	**4**	**Microprocessors Architecture, Programming and Applications with the 8085 by Ramesh Gaonkar.**	**Blackboard and chalk**
	Microprocessor Architecture and Microcomputer System: Microprocessor Architecture and its operation's, Memory, I/O Devices, Microcomputer System, Logic Devices and Interfacing, Microprocessor-Based System Application	**4**		
	8085 Microprocessor Architecture and Memory Interface: Introduction, 8085 Microprocessor unit, 8085-Based Microcomputer, Memory Interfacing,Interfacing the8085 Memory Segment	**4**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF JNaik **SIGNATURE OF THE H.O.D.** Sampada

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: IT

CLASS: FYIT SEMESTER: II MONTH: JANUARY TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To understand the concept of Green Technology.
- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless work.
- To know the concept of Recycling.
- To understand Metrics for Green IT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT205: Green IT **Unit 1**	**Overview to Green IT:** Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Regulating Green IT: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.	**6**		

	Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace			
USIT205: Green IT **Unit 2**	**Minimizing Power Usage:** Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Cooling: Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together	**6**		
USIT205: Green IT **Unit 3**	**Greening IT**: Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications	**4**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Changing the Way of Work: Old Behaviours,startingTop, Process Reengineering with Green in Mind,Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource.	**4**		

	Going Paperless: Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.	**4**		
USIT205: Green IT **Unit 4**	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mindset, David vs. America Online.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND** **Green IT by Deepak Shikarpur**	**Blackboard and chalk**
	Hardware Considerations: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection	**6**		
USIT205: Green IT **Unit 5**	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	**6**	**Harnessing Green IT: Principles and Practices by San Murugesan, G. R. Ganadharan** **AND**	**Blackboard and chalk**

	Staying Green: Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations	**6**	**Green IT by Deepak Shikarpur**	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT
CLASS:FYIT SEMESTER: II MONTH: December to March ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

To understand the concept of Green Technology.
- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless
- work. To know the concept of Recycling.
- To understand Metrics for Green IT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Green IT (USIT205) Unit – I	**Overview to Green IT**: Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power. **Regulating Green IT**: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace.	12	Toby Velte, Anthony Velte, Robert Elsenpeter McGraw Hill	Black board and chalk

Green IT (USIT205) Unit –II	**Minimizing Power Usage**: Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management, Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software. **Cooling:** Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk
Green IT (USIT205) Unit –III	**Greening IT:** Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications. Changing the Way of Work: Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource. **Going Paperless:** Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles. 12	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk

Green IT (USIT205)	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green	12	Harnessing Green IT: Principles and Practices	Black board and chalk
Unit –IV	Design, Recycling Companies, Finding the Best One, Checklist, Certifications, Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mindset, David vs. America Online. **Hardware Considerations**: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection		San Murugesan, G. R. Ganadharan, Wiley & IEEE	
Green IT (USIT205) Unit –V	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling. **Staying Green**: Organizational Check-ups, Chief Green Officer, Evolution, Sell the CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations.	12	Harnessing Green IT: Principles and Practices San Murugesan, G. R. Ganadharan, Wiley & IEEE	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

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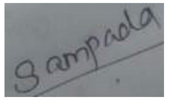

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: F.Y.B.Sc.IT - A SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Microprocessor and Microcontroller Unit 2	**Interfacing of I/O Devices** : Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Introduction to 8085 Assembly Language Programming: The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

	Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program.			
	Introduction to 8085 Instructions: Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Stacks and Sub-Routines: Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Interrupts: The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

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Paper 02 Microprocessor and Microcontroller UNIT-4	**Micro Controllers:** Embedded Systems and general purpose computer systems,history, classifications, applications and purpose of embedded systems.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family,external peripherals, memory – RAM , ROM, types of RAM and ROM, memorytesting, CRC ,Flash memory.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits,External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embeddedsystems Shibu K VTata Mcgraw- Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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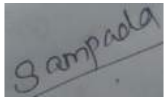

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: Information Technology.

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: Dec To March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

USIT201 Object Oriented Programming	**FUNCTION IN C++**: Introduction ,Function Declaration/Prototyping ,,The Main Function in C++,Recursion ,Call by Reference ,Call by Reference Vs Call by Address , Return by	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

UNIT-II	Reference ,,Inline Function ,Function Overloading ,Function with Default Arguments **CLASS AND OBJECTS IN C++** : Working with Class, Structure in C++ ,Accessing Private Data Passing and Returning Object ,Array of Object ,Friend Function ,Static Class Members ,Constant Member Function **WORKING WITH CONSTRUCTOR AND DESTRUCTOR:** Introduction, Constructor with Parameters, Implicit and Explicit Call to Constructor, Copy Constructor, Dynamic Initialization of Objects, Dynamic Constructor, Destructor **WORKING WITH OPERATOR OVERLOADING:** Introduction, Operator Overloading with Binary Operator Overloading Assignment (=) Operator, Overloading Unary Operators, Overloading Using Friend Function, Rules of Operator Overloading, Type Conversion			

USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor **INPUT-OUTPUT AND MANIPULATORS IN C++:** Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.
USIT201 Object Oriented Programming	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File, File Opening Modes Checking End of File, Random Access in File, Command Line Arguments, Working with Binary Mode Error Handling	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

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UNIT-IV	**TEMPLATE PROGRAMMING:** Introduction , Function Template , Class Template **EXCEPTION HANDLING IN C++ :** Introduction , Basics of Exception Handling , Exception Handling Mechanism , Programming Examples ,Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function			
USIT201 Object Oriented Programming UNIT-V	**INTRODUCTION TO THE STANDARD TEMPLATE LIBRARY** : Introduction , Components of STL , Containers , Algorithms , Iterators ,Application of Container Classes Function Objects **MANIPULATING STRINGS** :Introduction , Creating (string) Objects , Manipulating String Objects , Relational Operations, String Characteristics , Accessing Characters in Strings , Comparing and Swapping **NEW FEATURES OF ANSI C++ STANDARD** : Introduction ,New Data Types , New Operators , Class Implementation , Namespace Scope , Operator Keywords , New Keywords , New Headers	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAURI KETAN THAKUR DEPARTMENT: IT

CLASS: FY BSc IT SEMESTER:II MONTH: JAN-MAR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :
1. Understand what is a microcontroller, microcomputer, embedded system.
2. Understand different components of a micro-controller and their interactions.
3. Become familiar with programming environment used to develop embedded systems .
4. Understand key concepts of embedded systems like IO, timers, interrupts, interaction with peripheral devices .
5. Learn debugging techniques for an embedded system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 Mp/Mc	Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	https://www.tutorialspoint.com/embedded_systems Introduction to embedded systems by Shibu K V	POWER POINT PRESENTATION /BLACK BOARD &CHALK
	structure of embedded program, infinite loop compiling, linking and debugging	4		
	Embedded system development Environment – IDE, types of file generated on cross compilation, embedded product development life-cycle, trends in embedded industry.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton’s Forward Difference Interpolation, Newton’s Backward Difference Interpolation	3		
	Lagrange’s Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr.Avinash Sonawane DEPARTMENT: IT

CLASS: F. Y. B.Sc. IT SEMESTER: II MONTH: December to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. Gain an insight into designing web pages.
b. Use different ways of styling web pages using CSS.

PAPER, UNIT, TITLE	**SUBTOPICS**	NO OF LECTURES ALLOTED	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-III Web Applications Development Unit -I	**Internet and the World Wide Web:** What is Internet? Applications of Internet, E-mail, Telnet, FTP, E-commerce and Ebusiness. Internet Service Providers, Domain Name Server, Internet Address, World Wide Web (WWW): World Wide Web and its Evolution, Uniform Resource Locator (URL), Browsers, Common Features of Browsers, Search Engine, Web Server, HTTP Protocol.	4	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML5: Introduction, Formatting Text by using Tags, Using Lists, Creating Hyperlinks and Bookmarks, Defining Metadata about an HTML Document, Redirecting to another URL.	4		Black Board/PowerPoint Presentation
	CSS: Implementing Styles using CSS – Stylesheets, Formatting Text and Links using CSS, CSS Selectors, Changing Background, Adding Border, Margin and Padding, Setting Dimensions, Using Inline Container to mark up a part of a text.	4		Black Board/PowerPoint Presentation

Paper-III Web Applications Development Unit -II	**HTML Page Layout:** Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames.	2	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML Media: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page.	3		Black Board/PowerPoint Presentation
	HTML Tables: Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment	4		Black Board/PowerPoint Presentation
	HTML Forms: Collecting user input with HTML Forms, Additional Input Types in HTML5.	3		Black Board/PowerPoint Presentation
Paper-III Web Applications Development Unit -III	**JavaScript:** Introduction, Difference between Client-side and Server-side Scripting, JavaScript Variables and Constants, Data Types, Statements, Comments, Functions, Variable Scope, Hoisting, Strict Mode, JavaScript Objects, Dialog Boxes, void Keyword	2	The Complete Reference JavaScript Thomas A. Powell & Fritz Schneider McGrawHill 3 rd 2012	Black Board/PowerPoint Presentation
	Operators: Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators, Bitwise Operators	2		Black Board/PowerPoint Presentation
	Statements: Conditional Statements – if else, switch, Loops – while, do while, for, for in, for of, Loop Control – break, continue, labels	2		Black Board/PowerPoint Presentation
	JavaScript Objects: User-defined Objects, with Keyword, Native Objects – Array, String, Date, Math, Number, RegExp	2		Black Board/PowerPoint Presentation
	DOM: Introduction, DOM Properties and Methods. **Browser BOM:** Moving back and forward with History, Cookies	2		Black Board/PowerPoint Presentation
	Events and Event Handlers: HTML Events, DOM Events, DOM Event Listener, onAbort, onBlur, onChange, onClick, onDblClick, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove,	2		Black Board/PowerPoint Presentation

	onMouseOut, onMouseOver, onMouseUp, onReset, onResize, onSelect, on Submit, onUnload			
Paper-III Web Applications Development Unit -IV	**PHP:** Introduction, Server-side Scripting, PHP Syntax and Comments, Variables and Constants, Data Types, Control Structures, Looping, Loop Termination, Functions, PHP Form Handling, PHP Form Validation, Superglobals, PHP Arrays, PHP Strings, PHP RegEx, PHP Numbers, PHP Math, Basic PHP Error	12	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation
Paper-III Web Applications Development Unit -V	**Advanced PHP:** PHP Date and Time, PHP Include, PHP Cookies, PHP Sessions, Validating and Sanitizing Data with PHP Filters	6	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation
	PHP and MySQL Why PHP and MySQL? Connect to MySQL, Creating Database and Tables, Inserting Single and Multiple Rows, Retrieving Last ID, MySQL Prepared, Selecting Data, Updating Data, Deleting Data, Limiting Data	6	PHP & MySQL Novice to Ninja Tom Butler SPD 7th 2022	Black Board/PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr. Avinash Dilip Sonawane DEPARTMENT: Information Technology CLASS: FYIT

SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit V	Designing Embedded System with 8051 Microcontroller: Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging	4		Black board & Chalk
	Design and Development: Embedded system, development Environment – IDE, types of file generated on cross compilation, Embedded Product Development cycle and Trends in embedded Industry	4		Black board & Chalk

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

A.D. Sonawane

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: FYIT

SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit II	**Interfacing of I/O Devices** Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits. **Introduction to 8085 Assembly Language Programming:** The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program. **Introduction to 8085 Instructions:** Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program.	12	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk
Fundamentals of Micro	**Programming Techniques With Additional Instructions:** ProgrammingTechniques: Looping, Counting and Indexing,	12	Microprocessors Architecture,	Black board & Chalk

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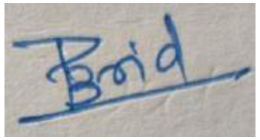
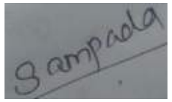
TEACHING PLAN (UNIT PLAN)

Processor and			Programming and	
Microcontrollers **USIT202** Unit III	Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging. **Counters and Time Delays:** Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs. **Stacks and Sub-Routines:** Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts. **Interrupts:** The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.		Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: IT

CLASS: FYIT SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: .

- To understand the concept of Green Technology.
- To learn Green IT regulating Green IT and different standards.
- To understand the concept of minimizing power utilization in technology.
- To know about Green PCs, Green notebooks and servers and Green data centers.
- To know how the way of work is changing and understand implementation of Paperless work.
- To know the concept of Recycling.
- To understand Metrics for Green IT.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Green IT (USIT205) Unit I	**Overview to Green IT:** Problems: Toxins, Power Consumption, Equipment Disposal, Company's Carbon Footprint: Measuring, Details, reasons to bother, Plan for the Future, Cost Savings: Hardware, Power.	04	Programming with c Byron Gottfried Tata McGRAWHill 1996	Black board and chalk
	Regulating Green IT: Laws, Standards and Protocols Introduction, The Regulatory Environment and IT Manufacturers RoHS, REACh, WEEE, Legislating for GHG Emissions and Energy Use of IT Equipment.	04		
	Nonregulatory Government Initiatives, Industry Associations and Standards Bodies, Green Building Standards, Green Data Centres , Social Movements and Greenpeace	04		

	Minimizing Power Usage: Power Problems, Monitoring Power Usage, Servers, Low-CostOptions, Reducing Power Use, Data De-Duplication, Virtualization, Management,	04		
	Bigger Drives, Involving the Utility Company, LowPower Computers, PCs, Linux, Components, Servers, ComputerSettings, Storage, Monitors, Power Supplies, Wireless Devices, Software.	04		
Green IT (USIT205) Unit II	**Cooling:** Cooling Costs, Power Cost, Causes of Cost, Calculating CoolingNeeds, Reducing Cooling Costs, Economizers, On-Demand Cooling, HP's Solution, Optimizing Airflow, Hot Aisle/Cold Aisle, Raised, Floors, Cable Management, Vapour Seal, Prevent Recirculation of Equipment Exhaust, Supply Air Directly to Heat Sources, Fans, Humidity, Adding Cooling, Fluid Considerations, System Design, Datacentre Design, Centralized Control, Design for Your Needs, Put Everything Together.	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Greening IT: Green PCs, Notebooks and Servers, Green Data Centres , Green Cloud Computing, Green Data Storage , Green Software, Green Networking and Communications.	04		
Green IT (USIT205) Unit III	**Changing the Way of Work:** Old Behaviours, starting at the Top, Process Reengineering with Green in Mind, Analysing the Global Impact of Local Actions, Steps: Water, Recycling, Energy, Pollutants, Teleworkers and Outsourcing, Telecommuting, Outsourcing, how to Outsource	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Going Paperless: Paper Problems, The Environment, Costs: Paper and Office, Practicality, Storage, Destruction, Going Paperless, Organizational Realities, Changing Over, Paperless Billing, Handheld Computers	04		

	vs. the Clipboard, Unified Communications, Intranets, What to Include, Building an Intranet, Microsoft Office SharePoint Server 2007, Electronic Data Interchange (EDI), Nuts and Bolts, Value Added Networks, Advantages, Obstacles.			

Green IT (USIT205) Unit IV	**Recycling:** Means of Disposal, Recycling, Refurbishing, Make the Decision, Life Cycle, from beginning to end, Life, Cost, Green Design, Recycling Companies, Finding the Best One, Checklist, Certifications,	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Hard Drive Recycling, Consequences, cleaning a Hard Drive, Pros and cons of each method, CDs and DVDs, good and bad about CD and DVDs disposal, Change the mind-set, David vs. America Online.	04		
	Hardware Considerations: Certification Programs, EPEAT, RoHS, Energy Star, Computers, Monitors, Printers, Scanners, All-in-Ones, Thin Clients, Servers, Blade Servers, Consolidation, Products, Hardware Considerations, Planned Obsolescence, Packaging, Toxins, Other Factors, Remote Desktop, Using Remote Desktop, Establishing a Connection	04		

Green IT (USIT205) Unit V	**Greening Your Information Systems:** Initial Improvement Calculations, Selecting Metrics, Tracking Progress, Change Business Processes, Customer Interaction, Paper Reduction, Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	04	Harnessing Green IT: Principles and Practices	Black board and chalk
	Green Supply Chain, Improve Technology Infrastructure, Reduce PCs and Servers, Shared Services, Hardware Costs, Cooling.	04		
	Staying Green: Organizational Check-ups, Chief Green Officer, Evolution, Sell the	04		

	CEO, SMART Goals, Equipment Check-ups, Gather Data, Tracking the data, Baseline Data, Benchmarking, Analyse Data, Conduct Audits, Certifications, Benefits, Realities, Helpful Organizations.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE. DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: F.Y.B.Sc.IT - B SEMESTER: II MONTH: DECEMBER-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

	Stacks and Sub-Routines: Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Interrupts: The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.	2	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
Paper 02 Microprocessor and Microcontroller UNIT-4	**Micro Controllers:** Embedded Systems and general purpose computer systems,history, classifications, applications and purpose of embedded systems.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family,external peripherals, memory – RAM , ROM, types of RAM and ROM, memorytesting, CRC ,Flash memory.	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk

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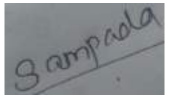
	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits,External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector,laptop. Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embeddedsystems Shibu K V Tata Mcgraw- Hill first 2012 and Embedded Systems Rajkamal Tata Mcgraw- Hill	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: CS
CLASS: F.Y.B.Sc.IT DIV:B SEMESTER: II MONTH: DEC TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.
USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

	INPUT-OUTPUT AND MANIPULATORS IN C++: Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators			
USIT201 Object Oriented Programming UNIT-IV	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File, File Opening Modes Checking End of File, Random Access in File, Command Line Arguments, Working with Binary Mode Error Handling **TEMPLATE PROGRAMMING:** Introduction , Function Template , Class Template **EXCEPTION HANDLING IN C++ :** Introduction , Basics of Exception Handling , Exception Handling Mechanism , Programming Examples ,Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton’s Forward Difference Interpolation, Newton’s Backward Difference Interpolation	3		
	Lagrange’s Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashwant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

D. Pawar.

SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUILEE KIRAN PATIL. DEPARTMENT: IT
CLASS: FYIT SEMESTER: II MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- Design static web pages using Hyper Text Markup Language (HTML).
- 2. Enhance the look of web pages by implementing CSS.
- 3. Collect information from the user with HTML Forms.
- 4. Design interactive webpages using client-side script (JavaScript).
- 5. Implement Document Object Model and events in web pages using JavaScript.
- 6. Write and deploy basic PHP code to simplify web development.
- 7. Store and retrieve data from a server using PHP.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Applications Development (USIT203) Unit I	**Internet and the World Wide Web**: What is Internet? Applications of Internet, E-mail, Telnet, FTP, E-commerce and Ebusiness. Internet Service Providers, Domain Name Server, Internet Address, World Wide Web (WWW): World Wide Web and its Evolution, Uniform Resource Locator (URL), Browsers, Common Features of Browsers, Search Engine, Web Server, HTTP Protocol. **HTML5:** Introduction, Formatting Text by using Tags, Using Lists, Creating Hyperlinks and Bookmarks, Defining	12	The Complete Reference HTML & CSS. Thomas A. Powell	Black Board and Chalk

	Metadata about an HTML Document, Redirecting to another URL.			

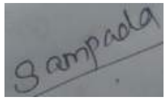
	CSS: Implementing Styles using CSS – Stylesheets, Formatting Text and Links using CSS, CSS Selectors, Changing Background, Adding Border, Margin and Padding, Setting Dimensions, Using Inline Container to mark up a part of a text.			
Web Applications Development (USIT203) Unit II	**HTML Page Layout**: Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames. **HTML Media, Tables and Forms**: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page. Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment Collecting user input with HTML Forms, Additional Input Types in HTML5.	12	Step by Step HTML5. Faithe Wempen.	Black Board and Chalk

Web Applications Development (USIT203) Unit III	**JavaScript:** Introduction, Difference between Client-side and Server-side Scripting, JavaScript Variables and Constants, Data Types, Statements, Comments, Functions, Variable Scope, Hoisting, Strict Mode, JavaScript Objects, Dialog Boxes, void Keyword **Operators:** Arithmetic Operators, Assignment Operators, Comparison Operators, Logical Operators, Bitwise Operators **Statements:** Conditional Statements – if else, switch, Loops – while, do while, for, for in, for of, Loop Control – break, continue, labels **JavaScript Objects**: User-defined Objects, with Keyword, Native Objects – Array, String, Date, Math, Number, RegExp **DOM**: Introduction, DOM Properties and Methods.	12	Learning Web Design A Beginner's Guide to Html, CSS, JavaScript, And Web Graphics Jennifer Niederst Robbins	Black Board and Chalk

	Browser BOM: Moving back and forward with History, Cookies **Events and Event Handlers:** HTML Events, DOM Events, DOM Event Listener, onAbort, onBlur, onChange, onClick, onDblClick, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onReset, onResize, onSelect, onSubmit, onUnload			
Web Applications Development (USIT203) Unit IV	PHP: Introduction, Server-side Scripting, PHP Syntax and Comments, Variables and Constants, Data Types, Control Structures, Looping, Loop Termination, Functions, PHP Form Handling, PHP Form Validation, Superglobals, PHP Arrays, PHP Strings, PHP RegEx, PHP Numbers, PHP Math, Basic PHP Errors	12	PHP & MySQL Novice to Ninja Tom Butler	Black Board and Chalk

Web Applications Development (USIT203) Unit V	**Advanced PHP**: PHP Date and Time, PHP Include, PHP Cookies, PHP Sessions, Validating and Sanitizing Data with PHP Filters PHP and MySQL **Why PHP and MySQL?** Connect to MySQL, Creating Database and Tables, Inserting Single and Multiple Rows, Retrieving Last ID, MySQL Prepared, Selecting Data, Updating Data, Deleting Data, Limiting Data.	12	PHP & MySQL Novice to Ninja Tom Butler	Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: FYIT

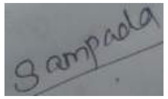
SEMESTER: II MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives: 1) To understand the basic concept of Micro Computer Systems
2) To develop background knowledge in 8085 Microprocessor
3) To write Assembly language Programs of 8085
4) To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Fundamentals of Micro Processor and Microcontrollers **USIT202** Unit II	**Interfacing of I/O Devices** Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits. **Introduction to 8085 Assembly Language Programming:** The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program. **Introduction to 8085 Instructions:** Data Transfer Operations, Arithmetic Operations, Logic Operation, Branch Operation, Writing Assembly Languages Programs, Debugging a Program.	12	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	Black board & Chalk

Fundamentals of Micro Processor and	**Programming Techniques With Additional Instructions:** ProgrammingTechniques: Looping, Counting and Indexing,	12	Microprocessors Architecture, Programming and	Black board & Chalk
Microcontrollers **USIT202** Unit III	Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging. **Counters and Time Delays:** Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs. **Stacks and Sub-Routines:** Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts. **Interrupts:** The 8085 Interrupt, 8085 Vectored and Non vectored Interrupts, Restart as S/W Instructions.		Applications with the 8085. Ramesh Gaonkar PENRAM 5 th 2012 AND Internet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA. DEPARTMENT: INFORMATION TECHNOLOGY

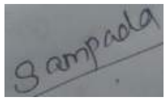
CLASS: F.Y.B.Sc.IT - C SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand and realize the Interfacing of memory & various I/O devices with 8085 microprocessors.
- Understand and classify the instruction set of 8085 microprocessor and distinguish the use of different instructions and apply it in assembly language programming.
- Design elementary aspects of Micro Controller based systems.

PAPER-02 Microprocessor and Microcontroller UNIT-3	**Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk
	Counters and Time Delays: Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs.	4	Microprocessors Architecture, Programming and Applications with the 8085. Ramesh Gaonkar PENRAM Fifth 2012	Projector,laptop. Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Namita Nitin Rode. **OBJECT ORIENTED PROGRAMMING** DEPARTMENT: Information Technology.

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: Dec To March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Object-oriented programming aims to implement real-world entities like inheritance, hiding, polymorphism, etc in programming. The main aim of OOP is to bind together the data and the functions that operate on them so that no other part of the code can access this data except that function.

The learners will be able to :

- To understand difference between object oriented and procedural oriented language.
- To understand advantages benefits and applications of object oriented language.
- To understand characteristics of object oriented language.
- To gain how to implement classes, methods and objects.
- To understand constant variables, data types, operators of C++ language.
- To understand use of constructor and destructor and using its implementation.
- To enable use of arrays, pointers and objects.
- To understand polymorphism and its types.
- To understand virtual function and pure virtual function / abstract function.
- To understand inheritance and its types with constructor.
- To understand run time error handling using try, catch and throw key words and benefits of it.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USIT201 Object Oriented Programming UNIT-I	**INTRODUCTION OF OBJECT-ORIENTED DESIGN** : Introduction, Objects, Class and Instance, Polymorphism, Inheritance, Object-Oriented Analysis , Finding the Objects ,Conceptual Modeling Requirements Model , Analysis Model, The Design Model, The Implementation Model , Test Model, Object-Oriented Analysis and Design, The Evolution of Object Model, Object-Oriented Programming, Object-Oriented Design, Object-Oriented Analysis, Elements of Object Model ,The Role of OOAD in the Software Life Cycle, OOAD Methodologies, Grady Booch Approach, **STARTING WITH C++:** C++ Overview, C++ Character Set, C++ Tokens, Variables, Counting Tokens, Data Types, Qualifiers, Range of Data Types, Your First C++ Program, Structure of a C++ Program, Styles of, Writing C++ Programs, Programming Examples **FEATURES OF C++:** Introduction, Operators and Expressions, Declaring Constants, Type Conversion, Decision Making: An Introduction, Unconditional Branching Using Goto , Introduction to Looping **OPERATORS AND REFERENCES IN C++**: Introduction, Scope Resolution Operator, Reference Variables, The Bool Data Type, The Operator New and Delete, Malloc Vs. New ,Pointer Member Operators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

USIT201 Object Oriented Programming UNIT-II	**FUNCTION IN C++**: Introduction ,Function Declaration/Prototyping ,,The Main Function in C++,Recursion ,Call by Reference ,Call by Reference Vs Call by Address , Return by Reference ,,Inline Function ,Function Overloading ,Function with Default Arguments **CLASS AND OBJECTS IN C++** : Working with Class, Structure in C++ ,Accessing Private Data Passing and Returning Object ,Array of Object ,Friend Function ,Static Class Members ,Constant Member Function **WORKING WITH CONSTRUCTOR AND DESTRUCTOR:** Introduction, Constructor with Parameters, Implicit and Explicit Call to	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

	Constructor, Copy Constructor, Dynamic Initialization of Objects, Dynamic Constructor, Destructor **WORKING WITH OPERATOR OVERLOADING:** Introduction, Operator Overloading with Binary Operator Overloading Assignment (=) Operator, Overloading Unary Operators, Overloading Using Friend Function, Rules of Operator Overloading, Type Conversion			
USIT201 Object Oriented Programming UNIT-III	**WORKING WITH INHERITANCE IN C++:** Introduction, Types of Inheritance, Public, Private and Protected Inheritance, Multiple Inheritance, Hierarchical Inheritance, Virtual Base Class, Constructor and Destructor in Inheritance, Containership **POINTERS TO OBJECTS AND VIRTUAL FUNCTIONS:** Pointer to Objects, The This Pointer, What is Binding in C++? , Virtual Functions ,Working of a Virtual Function ,Rules for Virtual Function ,Pure Virtual Function and Abstract Class ,Object Slicing ,Some Facts about Virtual Function ,Virtual Destructor **INPUT-OUTPUT AND MANIPULATORS IN C++:** Introduction, C++ Stream Classes, Unformatted Input/Output, Formatted Input /Output Operations, Manipulators	12	1. Object Oriented Analysis and Design 2. Mastering C++	Black Board, Projector, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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Yashvant Keshav Patil College of Commerce
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VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: IT CLASS: FYIT-DIV C
SEMESTER: SEM-2 MONTH: DECEMBER -APRIL ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 OBJECT ORIENTED PROGRAMMING UNIT 4	**FILE HANDLING IN C++:** Introduction, File Streams, Opening and Closing a File,File Opening Modes Checking End of File, Random Access in File, Command LineArguments, Working with Binary Mode Error Handling	5	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	PROJECTOR,LAPTOP, BLACK BOARD AND CHALK
	TEMPLATE PROGRAMMING: Introduction , Function Template , ClassTemplate	3	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	

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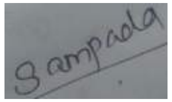
	EXCEPTION HANDLING IN C++ : Introduction , Basics of Exception Handling ,Exception Handling Mechanism , Programming Examples Exception Handling with Class Catching all Exceptions , Specifying Exception for a Function	4	Object-oriented Programming C++ Simplified by Hari Mohan Pandey	
PAPER 1 OBJECT ORIENTED PROGRAMMING UNIT 5	INTRODUCTION TO THE STANDARD TEMPLATE LIBRARY : Introduction ,Components of STL , Containers , Algorithms , Iterators ,Application of Container Classes Function Objects	4	Object Oriented Programming with C++ by E.Balagurusamy	PROJECTOR,LAPTOP, BLACK BOARD AND CHALK
	MANIPULATING STRINGS :Introduction , Creating (string) Objects ,Manipulating String Objects , Relational Operations, String Characteristics, Accessing Characters in Strings , Comparing and Swapping	4	Object Oriented Programming with C++ by E.Balagurusamy	
	NEW FEATURES OF ANSI C++ STANDARD : Introduction ,New Data Types, New Operators , Class Implementation , Namespace Scope , Operator Keywords, New Keywords , New Headers.	4	Object Oriented Programming with C++ by E.Balagurusamy	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand mathematical modelling, types of errors Also conservation laws & engineering problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit I, Mathematical modeling & engineering problem solving.	Simple Mathematical Model.	1	1. Introductory Methods of Numerical Methods by S. S. Shastri 2. Numerical Methods by Bal Guruswami	Chalk board method.
	Significant Figures, Accuracy and Precision.	2		
	Error Definitions, Round-Off Errors.	3		
	The Taylor Series, Error Propagation.	4		
	Total Numerical Errors, Formulation Errors and Data Uncertainty.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand problem solving using iteration methods. To learn differentiation using numerical methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit II, Solutions of Algebraic and Transcendental Equations Interpolation.	The Bisection Method, The Newton-Raphson Method	3	Numerical Methods by Bal Guruswami	Chalk board method.
	The Regula-falsi method, The Secant Method	3		
	Forward Difference, Backward Difference	1		
	Newton’s Forward Difference Interpolation, Newton’s Backward Difference Interpolation	3		
	Lagrange’s Interpolation	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FYIT SEMESTER: II

MONTH: January. ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: Solve Linear Programming problem and Partial Differential Equations using different methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 - NM, Unit V, Linear Programming Partial Differential Equations	Linear optimization problem, Formulation and Graphical solution, Basic solution and Feasible solution	4	Numerical Methods by Bal Guruswami	Chalk board method.
	Classification of Partial Differential Equations of the second order	1		
	Difference equation corresponding to Laplace Equation, Liebman's Iteration Process,	2		
	Bender-Schmidt's Difference Equation corresponding to the parabolic equation, Crank Nicolson's difference equations corresponding to the parabolic equation	4		
	Difference equation corresponding to the Hyperbolic equation.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

D. Pawar.

SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: FYIT SEMESTER: **II** MONTH: NOV to MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

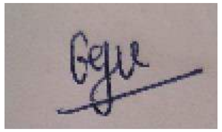
To understand the peripheral devices and interfacing to 8051 Micro Controller and design aspects of Micro Controller

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-02 Micro Processor and Microcontrollers Unit 4	**Micro Controllers:** Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Embedded Hardware: Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory	3	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Peripherals: Control and Status Registers, Device Driver, Timer watch Timer	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family.8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	8051 Programming in C: Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	2	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
Paper-02 Micro Processor and Microcontrollers Unit 5	**Designing Embedded System with 8051 Microcontroller:** Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk
	Programming embedded systems: structure of embedded program, infinite loop, compiling, linking and debugging.	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And	Projector, Laptop, Black board & Chalk

			Embedded Systems Rajkamal Tata Mcgraw-Hill	
	Design and Development: Embedded system, development Environment – IDE, types of file generated on cross compilation, Embedded Product Development cycle and Trends in embedded Industry	4	Introduction to embedded systems Shibu K V Tata Mcgraw-Hill First 2012 And Embedded Systems Rajkamal Tata Mcgraw-Hill	Projector, Laptop, Black board & Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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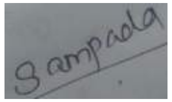

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: F. Y. B.Sc. IT SEMESTER: II MONTH: January to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. Gain an insight into designing web pages.
b. Use different ways of styling web pages using CSS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Web Applications Development Unit -II	**HTML Page Layout:** Using Layout Elements, Semantic Elements, Creating, Positioning and Formatting Divisions, Floating Divisions next to each other, Responsive Web Design, Inline Frames.	2	Step by Step HTML5, Faithe Wempon, Microsoft Press, 2011	Black Board/PowerPoint Presentation
	HTML Media: Embedding Images, Creating Client-side and Server-side Image Map, adding Favicon, Embedding audio and video on web page.	3		Black Board/PowerPoint Presentation
	HTML Tables: Creating Simple Table, Table Dimension, Merging Table Cells, Formatting Tables: Applying Borders, Background and Foreground fills, Changing Cell Padding, Spacing and Alignment	4		Black Board/PowerPoint Presentation
	HTML Forms: Collecting user input with HTML Forms, Additional Input Types in HTML5.	3		Black Board/PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartrak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: III MONTH: SEP to DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- This course aims to provide conceptual understanding of developing strong foundation in general writing, including research proposal and reports.
- It covers the technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.
- This course aims to provide conceptual understanding of innovation and entrepreneurship development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 **Technical Writing and Entrepreneurship Development**, Unit-3	**Creating Graphics:** The Functions of Graphics, The Characteristics of an Effective Graphic, Understanding the Process of Creating Graphics, Using Color Effectively, Choosing the Appropriate Kind of Graphic, Creating Effective Graphics for Multicultural Readers.	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Researching Your Subject: Understanding the Differences Between Academic and Workplace Research, Understanding the Research Process, Conducting Secondary Research, Conducting Primary Research,	3	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

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			Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Research and Documentation: Literature Reviews, Interviewing for Information, Documenting Sources, Copyright, Paraphrasing, Questionnaires.	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Report Components: Abstracts, Introductions, Tables of Contents, Executive Summaries, Feasibility Reports, Investigative Reports, Laboratory Reports, Test Reports, Trip Reports, Trouble Reports	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Managing innovation within firms: Organisations and innovation, The dilemma of innovation management, Innovation dilemma in low technology sectors, Dynamic	2	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

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Paper-01 **Technical Writing and Entrepreneurship Development**, Unit-5	capabilities, Managing uncertainty, Managing innovation projects		Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Operations and process innovation: Operations management, The nature of design and innovation in the context of operations, Process design, Process design and innovation	3	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Managing intellectual property: Intellectual property, Trade secrets, An introduction to patents, Trademarks, Brand names, Copyright	2	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet
	Management of research and development: What is research and development?, R&D management and the industrial context, R&D investment and company success, Classifying R&D, R&D management and its link with	3	Technical Communication - Mike Markel	Laptop, PPT, Google Meet

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	business strategy, Strategic pressures on R&D, Which business to support and how?, Allocation of funds to R&D, Level of R&D expenditure		Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	
	Managing R&D projects: Successful technology management, The changing nature of R&D management, The acquisition of external technology, Effective R&D management, The link with the product innovation process, Evaluating R&D projects.	2	Technical Communication - Mike Markel Technical Writing 101: A Real-World Guide to Planning and Writing Technical Content- Alan S. Pringle and Sarah S. O'Keefe	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: MSC(IT) PART 1 SEMESTER: I MONTH: OCTOBER-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

Develop in depth understanding of the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics. Practice problem analysis and decision-making. Gain practical, hands-on experience with statistics programming languages and big data tools through coursework and appliedresearch experiences.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: PSIT102 unit:3, Title: : Data Science	Assess Superstep: Assess Superstep, Errors, Analysis of Data, Practical Actions, Engineering a Practical Assess Superstep,	12	Principles of Data Science Sinan Ozdemir PACKT 2016	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. Understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –I	**Data Science Technology Stack:** Rapid Information Factory Ecosystem, Data Science Storage Tools, Data Lake, Data Vault, DataWarehouse Bus Matrix, Data Science Processing Tools ,Spark, Mesos,Akka , Cassandra, Kafka, Elastic Search, R ,Scala, Python, MQTT, The Future	4	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Layered Framework: Definition of Data Science Framework, Cross-Industry Standard Process for Data Mining (CRISP-DM), Homogeneous Ontology for Recursive Uniform Schema, The TopLayers of a Layered Framework, Layered Framework for High-LevelData Science and Engineering	4		Powerpoint presentation through Google Meet
	Business Layer: Business Layer, Engineering a Practical BusinessLayer	2		Powerpoint presentation through Google Meet
	Utility Layer: Basic Utility Design, Engineering a Practical Utility Layer	2		Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
.b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –II	**Three Management Layers:** Operational Management Layer, Processing-Stream Definition and Management, Audit, Balance, andControl Layer, Balance, Control, Yoke Solution, Cause-and-Effect, Analysis System, Functional Layer, Data Science Process	6	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Retrieve Superstep : Data Lakes, Data Swamps, Training the Trainer Model, Understanding the Business Dynamics of the Data Lake, Actionable Business Knowledge from Data Lakes, Engineering a Practical Retrieve Superstep, Connecting to Other Data Sources,	6		Powerpoint presentation through Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: Msc. I. T SEMESTER: I MONTH: September-January ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand the key technologies in data science and business analytics: data mining, machine learning, visualization techniques, predictive modeling, and statistics.
.b. Practice problem analysis and decision-making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Data Science Unit –V	**Transform Superstep:** Univariate Analysis, Bivariate Analysis, Multivariate Analysis, Linear Regression, Logistic Regression, Clustering Techniques, ANOVA, Principal Component Analysis (PCA), Decision Trees, Support Vector Machines, Networks, Clusters, and Grids, Data Mining, Pattern Recognition, Machine Learning, Bagging Data,Random Forests, Computer Vision (CV) , Natural Language Processing (NLP), Neural Networks, TensorFlow.	9	Practical Data Science Andreas François Vermeulen	Powerpoint presentation through Google Meet
	Organize and Report Supersteps : Organize Superstep, Report Superstep, Graphics, Pictures, Showing the Difference	3		Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. P. PALAV (MANE)**_______________DEPARTMENT:_______**INFORMATION TECHNOLOGY**____________________CLASS: ____**MSC(IT)**_______________ SEMESTER:____**I**___________ MONTH: _ **SEPTEMBER-DECEMBER**___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

- **Understand Soft computing concepts like fuzzy logic, neural networks and genetic algorithm, where Artificial Intelligence is mother branch of all.**
- **All these techniques will be more effective to solve the problem efficiently. Identify and describe soft computing techniques and their roles in building intelligent machines.**
- **Recognize the feasibility of applying a soft computing methodology or a particular problem**
- **Apply fuzzy logic and reasoning to handle uncertainty and solve engineering problems**
- **Apply genetic algorithms to combinatorial optimization problems**
- **Apply neural networks for classification and regression problems**
- **Effectively use existing software tools to solve real problems using a soft computing approach**
- **Evaluate and compare solutions by various soft computing approaches for a given problem.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT104 **Soft Computing Techniques** **Unit No -03**	UnSupervised Learning Networks: Fixed weight competitive nets, Kohonen self-organizing feature maps, learning vectors quantization, counter propogation networks, adaptive resonance theory networks. Special Networks: Simulated annealing, Boltzman machine, Gaussian Machine, Cauchy Machine, Probabilistic neural net, cascade correlation network, cognition network, neo-cognition network, cellular neural network, optical neural network.	05 05	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.

	Third Generation Neural Networks: Spiking Neural networks, convolutional neural networks, deep learning neural networks, extreme learning machine model.	02		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -04	Introduction to Fuzzy Logic, Classical Sets and Fuzzy sets: Classical sets, Fuzzy sets. Classical Relations and Fuzzy Relations: Cartesian Product of relation, classical relation, fuzzy relations, tolerance and equivalence relations, non-iterative fuzzy sets. Membership Function: features of the membership functions, fuzzification, methods of membership value assignments. Defuzzification: Lambda-cuts for fuzzy sets, Lambda-cuts for fuzzy relations, Defuzzification methods. Fuzzy Arithmetic and Fuzzy measures: fuzzy arithmetic, fuzzy measures, measures of fuzziness, fuzzy integrals.	02 03 02 02 03	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Fuzzy Rule base and Approximate reasoning: Fuzzy proportion, formation of rules, decomposition of rules, aggregation of fuzzy rules, fuzzy reasoning, fuzzy inference systems,Fuzzy logic control systems, control system design, architecture and operation of FLC system, FLC system models and applications of FLC System. Genetic Algorithm: Biological Background, Traditional optimization and search techniques, genetic algorithm and search space, genetic algorithm vs. traditional algorithms, basic terminologies, simple genetic algorithm, general genetic algorithm, operators in genetic algorithm, stopping condition for genetic algorithm flow, constraints in genetic algorithm, problem solving using genetic algorithm, the schema theorem, classification of genetic algorithm, Holland classifier systems, genetic programming, advantages and limitations and applications of genetic algorithm.	03 06	Principles of Soft computing S.N.Sivanandam S.N.Deepa Wiley 3Rd 2019	Blackboard, Chalk and Duster. PPts.

	Differential Evolution Algorithm, Hybrid soft computing techniques – neuro – fuzzy hybrid, genetic neuro-hybrid systems, genetic fuzzy hybrid and fuzzy genetic hybrid systems.	03		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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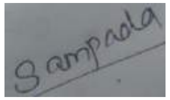

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A. PALAV (MANE)**______________DEPARTMENT:_______**INFORMATION TECHNOLOGY**____________________CLASS:____**MSC(IT)**______________ SEMESTER:____**III**__________ MONTH: ______ **SEPTEMBER-DECEMBER** __________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

Understanding Human learning aspects.

Understanding primitives in learning process by computer.

Understanding nature of problems solved with Machine Learning

- Understand the key issues in Machine Learning and its associated applications in intelligent business and scientific computing.
- Acquire the knowledge about classification and regression techniques where a learner will be able to explore his skill to generate data base knowledge using the prescribed techniques.
- Understand and implement the techniques for extracting the knowledge using machine learning methods.
- Achieve adequate perspectives of big data analytics in various applications like recommender systems, social media applications etc.
- Understand the statistical approach related to machine learning. He will also Apply the algorithms to a real-world problem, optimize the models learned and report on the expected accuracy that can be achieved by applying the models.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Elective 2 PSIT303a Machine Learning **Unit No -03**	**Linear Models:** Least Squares method, Multivariate Linear Regression, Regularized Regression, Using Least Square regression for Classification. Perceptron, Support Vector Machines, Soft Margin SVM, Obtaining probabilities from Linear classifiers, Kernel methods for non-Linearity.	12	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -04	**Logic Based and Algebraic Model: Distance Based Models:** Neighbours and Examples, Nearest Neighbours Classification, Distance based clustering-K means Algorithm, Hierarchical clustering, **Rule Based Models:** Rule learning for subgroup discovery, Association rule mining. **Tree Based Models:** Decision Trees, Ranking and Probability estimation Trees, Regression trees, Clustering Trees.	06 03 03	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.

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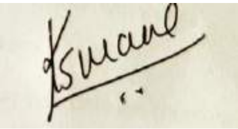
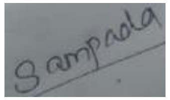
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Probabilistic Model: Normal Distribution and Its Geometric Interpretations, Naïve Bayes Classifier, Discriminative learning with Maximum likelihood, Probabilistic Models with Hidden variables: Estimation-Maximization Methods, Gaussian Mixtures, and Compression based Models. **Trends In Machine Learning :** Model and Symbols- Bagging and Boosting, Multitask learning, Online learning and Sequence Prediction, Data Streams and Active Learning, Deep Learning, Reinforcement Learning.	07 05	Machine Learning: The Art and Science of Algorithms that Make Sense of Data Peter Flach Cambridge University Press 2012	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understad the developing strong foundation in general writing, including research proposal and reports.
b. prepare technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Technical Writing And Entrepreneurship Development Unit –II	**Introduction to Content Writing:** Types of Content (Article, Blog, E-Books, Press Release, Newsletters Etc), Exploring Content Publication Channels. Distribution of your content across various channels.	4	Handbook of Technical Writing — Gerald J. Alred , Charles T. Brusaw , Walter E. Oliu	Google Meet with Powerpoint Presentation
	Blog Creation: Understand the psychology behind your web traffic, Creating killing landing pages which attract users, Using Landing Page Creators, Setting up Accelerated Mobile Pages, Identifying UI UX Experience of your website or blog.	4		Google Meet with Powerpoint Presentation
	Organizing Your Information: Understanding Three Principles for Organizing Technical Information, Understanding Conventional Organizational Patterns	2		Google Meet with Powerpoint Presentation

	Emphasizing Important Information: Writing Clear, Informative Titles, Writing Clear, Informative Headings, Writing Clear Informative Lists, Writing Clear Informative Paragraphs.	2		Google Meet with Powerpoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: III MONTH:September -December ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understad the developing strong foundation in general writing, including research proposal and reports.

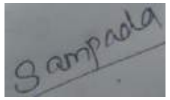
b. prepare technological developing skills for writing Article, Blog, E-Book, Commercial web Page design, Business Listing Press Release, E-Listing and Product Description.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Writing Proposals: Understanding the Process of Writing Proposals, The Logistics of Proposals, The “Deliverables” of Proposals, Persuasion and Proposals, Writing a Proposal, The Structure of the Proposal.	4	Handboo k of Technical	Google Meet with Powerpoint Presentation

Paper-I Technical Writing And Entrepreneurship Development Unit –IV	**Writing Informational Reports:** Understanding the Process of Writing Informational Reports, Writing Directives, Writing Field Reports, Writing Progress and Status Reports, Writing Incident Reports, Writing Meeting Minutes. **Writing Recommendation Reports:** Understanding the Role of Recommendation Reports, Using a Problem-Solving Model for Preparing Recommendation Reports, Writing Recommendation Reports.	4	Writing Gerald J. Alred , Charles T. Brusaw , Walter E. Oliu	Google Meet with Powerpoint Presentation
	Reviewing, Evaluating, and Testing Documents and Websites: Understanding Reviewing, Evaluating, and Testing, Reviewing Documents and Websites, Conducting Usability Evaluations, Conducting Usability Tests, Using Internet tools to	4		Google Meet with Powerpoint Presentation

	check writing Quality, Duplicate Content Detector, What is Plagiarism?, How to avoid writing plagiarism content? **Innovation management: an introduction:** The importance of innovation, Models of innovation, Innovation as a management process. **Market adoption and technology diffusion:** Time lag between innovation and useable product, Innovation and the market , Innovation and market vision ,Analysing internet search data to help			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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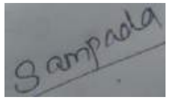

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. To get the insight of the security loopholes in every aspect of computing.
b. To understand the threats and different types of attacks that can be launched on computing systems.
c. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -I	**Introduction to Security Breaching**: Overview of Information Security, Threats and Attack vectors, Concepts of Hacking – Ethical and Unethical, Information Security Controls, Concepts of penetration Testing, Information Security Laws and Standards.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Evaluation Security of IT Organisation: Concepts, Methodology, Tools, Countermeasures, Penetration Testing.	3		PowerPoint presentation
	Network Scanning: Concepts, Scanning beyond IDS and firewalls, Tools, Banner Grabbing, Scanning Techniques, Network Diagrams, penetration testing.	3		PowerPoint presentation
	Enumeration: Concepts, Different types of enumeration: Netbios, SNMP, LDAP, NTP, SMTP, DNS, other enumeration techniques, Countermeasures, Penetration Testing	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

d. To get the insight of the security loopholes in every aspect of computing.
e. To understand the threats and different types of attacks that can be launched on computing systems.
f. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -II	**Analysis of Vulnerability:** Concepts, Assessment Solutions, Scoring Systems, Assessment Tools, Assessment Reports.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Breaching System Security: Concepts, Cracking passwords, Escalating privileges, Executing Applications, Hiding files, covering tracks, penetration testing.	3		PowerPoint presentation
	Threats due to malware: Concepts, Malware Analysis, Trojan concepts, countermeasures, Virus and worm concepts, anti-malware software, penetration testing.	3		PowerPoint presentation
	Network Sniffing: Concepts, countermeasures, sniffing techniques, detection techniques, tools, penetration testing.	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To get the insight of the security loopholes in every aspect of computing.
b. To understand the threats and different types of attacks that can be launched on computing systems.
c. To know the countermeasures that can be taken to prevent attacks on computing systems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III Security Breaches and Countermeasures Unit -III	**Social Engineering:** Concepts, Impersonation on networking sites, Techniques, Identity theft, Insider threats, countermeasures, Pen testing.	3	CEHv10, Certified Ethical Hacker Study Guide by Ric Messier	PowerPoint presentation
	Denial of Service and Distributed Denial of service: Concepts, techniques, botnets, attack tools, countermeasures, protection tools, penetration testing.	3		PowerPoint presentation
	Hijacking an active session: Concepts, tools, application level session hijacking, countermeasures, network level session hijacking, and penetration testing.	3		PowerPoint presentation
	Evasion of IDS, Firewalls and Honeypots: Introduction and concepts, detecting honeypots, evading IDS, IDS and Firewall evasion countermeasures, evading firewalls, penetration testing.	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Gauri Gaurav Vartrak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: III MONTH: SEPT to DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To be able to conduct business research with an understanding of all the latest theories.
- To develop the ability to explore research techniques used for solving any real world or innovate problem.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 Research in Computing, Unit-1	**Introduction:** Role of Business Research, Information Systems and Knowledge Management, Theory Building, Organization ethics and Issues	12	Business Research Methods--William G.Zikmund, B.J Babin, J.C. Carr,	Laptop, PPT, Google Meet
Paper-01 Research in Computing, Unit-2	**Beginning Stages of Research Process:** Problem definition, Qualitative research tools, Secondary data research	12	Business Research Methods--William G.Zikmund, B.J Babin, J.C. Carr,	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -I	Computer Forensics: The present Scenario: Introduction to computer forensics, History of computer forensics, Computer forensics flaws and risks, Cybercrime, Role of computer forensics, Reason for cyber-attacks, Modes of attacks, Cyber war	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	The Investigation Process : Investigating methodology, Evaluating the case, Investigation plan, Importance of data-recovery workstations and software, Implementing an investigation, Collecting the evidence, Closing the case, Case evaluation	3		PowerPoint presentation
	Computers – Searching and Seizing, Electronic Evidence: Identifying Digital Evidence, Preparing for a Search, Seizing Digital Evidence at the Scene, Storing Digital Evidence, Reviewing a Case	3		PowerPoint presentation
	Procedures to be followed by the first responder: What is an incident?, Incident response team, How to report an incident?, CSIRT categorization, Need for CSIRT, What does CSIRT do?	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -II	Setting up a lab for Computer Forensics: Budget allocation for a forensic lab, Physical location, General configuration , Equipment needs, Basic workstation requirements, Ambience, Physical security recommendations, Auditing, Forensics lab licensing requisite, Forensics lab staff responsibilities	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Hard Disks and File Systems: Understanding file systems, examining MS-DOS, Windows, Linux, NTFS, Understanding Disk Partitions	3		PowerPoint presentation
	Forensics on Windows Machine: Locating evidence on Windows systems, Gathering volatile evidence, Investigating Windows file slack, Examining file systems, Checking Registry, Importance of Memory dump, System state backup, Investigating Internet traces	3		PowerPoint presentation
	Acquire and Duplicate Data: Determining the best data acquisition methods, Understanding data recovery contingencies, Data preservation commands, The need for data duplication, Data duplication tools	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -III	Recovery of deleted files and partitions: Introduction to recovering image files, Digital evidence, Securing and recovering deleted files, Zero Assumption Digital Image Recovery, Data recovery in Linux, Data recovery tools	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Using Access Data FTK and Encase for forensics Investigation: Evaluating Computer Forensics Tool Needs, Computer Forensics Software Tools, Computer Forensics Hardware Tools, Validating and Testing Forensics Software	3		PowerPoint presentation
	Forensic analysis of Steganography and Image files : Recognize image files, data compression, Locate and recover image files, Analyze image file headers, Reconstructing file fragments, steganography in image files, Tools for viewing images	3		PowerPoint presentation
	Cracking Application passwords: Password- terminology, What is a password cracker?, Various cracking methods, Classification of cracking softwares, System software password cracking, Application software password cracking	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT
CLASS: M. Sc. I. T SEMESTER: IV MONTH: February-April ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Investigate the cyber forensics with standard operating procedures.
b. Recover the data from the hard disk with legal procedure.
c. To recover and analyse the data using forensics tool

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Cyber Forensics Unit -IV	Capturing logs and correlating to the events: Examining intrusion and security events, Event gathering, End-to-end forensic investigation, Correlating logfiles, IDS loganalysis	3	EC-Council CHFIv10 Study Guide by EC-Council And The official CHFI Exam 312-49 study Guide by Dave Kleiman	PowerPoint presentation
	Network Forensics – Investigating logs and Network traffic: Sources of evidence on a network, Evidence collection and documentation on a network, Gathering evidence on a network, Documenting the gathered evidence on a network, Evidence reconstruction for investigation, Tools	3		PowerPoint presentation
	Investigating Wireless and Web Attacks: Types of web attacks, Indications of a web attack, Responding to a web attack, Overview of web logs, Investigating static and dynamic IP address, Tools	3		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.).Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. SEMESTER: IV MONTH: January-May ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
b. To cover the technological underpinnings of blockchain operations as distributed data structuresand decision-making systems, their functionality and different architecture types. C.To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Blockchain Unit –I	Blockchain: Introduction, History, Centralised versus Decentralised systems, Layers of blockchain, Importance of blockchain, Blockchain uses and use cases.	4	Beginning BlockchainA Beginner’s Guide to Building Blockchain Solutions Bikramaditya Singhal, Gautam Dhameja,Priyansu Sekhar Panda	Powerpoint presentation through Google Meet
	Working of Blockchain: Blockchain foundation, Cryptography, Game Theory, Computer Science Engineering, Properties of blockchain solutions, blockchain transactions, distributed consensus mechanisms, Blockchain mechanisms, Scaling blockchain	4		Powerpoint presentation through Google Meet
	Working of Bitcoin: Money, Bitcoin, Bitcoin blockchain, bitcoin network, bitcoin scripts, Full Nodes and SVPs, Bitcoin wallets.	4		Powerpoint presentation through Google Meet
				Powerpoint presentation through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.(Mrs.) Sampada Deshmukh DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: IV MONTH: January-May ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

a. understand of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
b. To cover the technological underpinnings of blockchain operations as distributed data structuresand decision-making systems, their functionality and different architecture types. C.To provide a critical evaluation of existing "smart contract" capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-I Blockchain Unit –II	Ethereum:three parts of blockchain, Ether as currency and commodity, Building trustlesssystems, Smart contracts, Ethereum Virtual Machine, The Mist browser, Wallets as a Computing Metaphor, The Bank Teller Metaphor, Breaking with Banking History, How Encryption Leads to Trust, System Requirements, Using Parity with Geth, Anonymity in Cryptocurrency, Central Bank Network, Virtual Machines, EVM Applications, State Machines, Guts of the EVM, Blocks, Mining's Place in the State Transition Function, Renting Time on the EVM, Gas, Working with Gas, Accounts, Transactions, and Messages, Transactionsand Messages, Estimating Gas Fees for Operations, Opcodes in the EVM.	6	Beginning BlockchainA Beginner's Guide to Building Blockchain Solutions Bikramaditya Singhal, Gautam Dhameja,Priyansu Sekhar Panda	Powerpoint presentation through Google Meet
	Solidity Programming: Introduction,Global Banking Made Real, Complementary Currency, Programming the EVM, Design Rationale, Importance of Formal Proofs, Automated Proofs, Testing, Formatting	6		Powerpoint presentation through Google meet

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	Solidity Files, Reading Code, Statements and Expressions in Solidity, Value Types, Global Special Variables, Units, and Functions,			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. ARCHANA SANTOSH RAUT** DEPARTMENT: **_INFORMATION TECHNOLOGY**

CLASS: **MSC(IT)** SEMESTER: **III** MONTH: **SEPT-DEC** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to :

- To make the students aware about the automation today in the industry.
- To make the students aware about the tools used for automation.
- To help the students automate a complete process

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT304a Robotic Process Automation	**Sequence, Flowchart, and Control Flow:** Sequencing the workflow, Activities, Control flow, various types of loops, and decision making, Step-by-step example using Sequence and Flowchart, Step-by-step example using Sequence and Control flow	06	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
Unit II	**Data Manipulation:** Variables and scope, Collections, Arguments – Purpose and use, Data table usage with examples, Clipboard	06	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector

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	management, File operation with step-by-step example, CSV/Excel to data table and vice versa (with a step-by-step example)		Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
PSIT304a Robotic Process Automation	**Managing and Maintaining the Code:** Project organization, Nesting workflows, Reusability ofworkflows, Commenting techniques, State Machine, When to use Flowcharts, State Machines, or Sequences, Using config files and examples of a config file, Integrating a TFS server	**06**	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
Unit V	**Deploying and Maintaining the Bot:** Publishing using publish utility, Overview of Orchestration Server, Using Orchestration Server to control bots, Using Orchestration Server to deploy bots, License management, Publishing and managing updates	**06**	Learning Robotic Process Automation,Alok Mani Tripathi, Packt, 1st, 2018 Robotic ProcessAutomation Tools, Process Automation and their benefits: Understanding RPA and Intelligent Automation, Srikanth Merianda, 1st, 2018	Desktop and Laptop, Powerpoint Presentations,Projector
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A. PALAV (MANE)**______________DEPARTMENT:_______**INFORMATION TECHNOLOGY**____________________CLASS:____**MSC(IT)**______________ SEMESTER:____**IV**___________ MONTH: ______ **FEBRUARY-MAY** ___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

- To present the mathematical, statistical and computational challenges of building neural networks
- To study the concepts of deep learning
- To enable the students to know deep learning techniques to support real-time applications
- Describes basics of mathematical foundation that will help the learner to understand the concepts of Deep Learning.
- Understand and describe model of deep learning
- Design and implement various deep supervised learning architectures for text & image data.
- Design and implement various deep learning models and architectures.
- Apply various deep learning techniques to design efficient algorithms for real-world applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
Elective 2 PSIT403a Deep Learning **Unit No -01**	**Applied Math and Machine Learning Basics:** Linear Algebra: Scalars, Vectors, Matrices and Tensors , Multiplying Matrices and Vectors , Identity and Inverse Matrices, Linear Dependence and Span , norms, special matrices and vectors, eigen decompositions. **Numerical Computation:** Overflow and under flow, poor	07	Deep Learning Ian Goodfellow, YoshuaBengio, Aaron Courvile	Blackboard , Chalk and Duster. PPts.

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Unit No -02	conditioning, Gradient Based Optimization, Constraint optimization.	05	An MIT Press book 1st, 2016. Fundamentals of Deep Learning Nikhil Buduma O'Reilly 1st, 2017.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
	Deep Learning Research: Linear Factor Models, Autoencoders, representation learning	12	Deep Learning Ian Goodfellow, Yoshua Bengio, Aaron Courvile An MIT Press book 1st, 2016. Fundamentals of Deep Learning Nikhil Buduma O'Reilly 1st, 2017.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			

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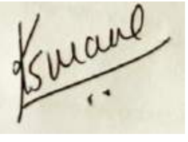

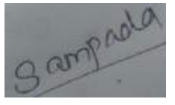

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. (Mrs.) Gauri Gaurav Vartak DEPARTMENT: Information Technology

CLASS: MScIT SEMESTER: IV MONTH: JAN to MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To provide conceptual understanding of the function of Blockchain as a method of securing distributed ledgers, how consensus on their contents is achieved, and the new applications that they enable.
- To cover the technological underpinnings of blockchain operations as distributed data structures and decision-making systems, their functionality and different architecture types.
- To provide a critical evaluation of existing “smart contract” capabilities and platforms, and examine their future directions, opportunities, risks and challenges.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-01 **Block Chain,** Unit-3	**Hyperledger:** Overview, Fabric, composer, installing hyperledger fabric and composer, deploying, running the network, error troubleshooting.	6	Beginning Blockchain A Beginner’s Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet
	Smart Contracts and Tokens: EVM as Back End, Assets Backed by Anything, Cryptocurrency Is a Measure of Time, Function of Collectibles in Human Systems, Platforms for High-Value Digital Collectibles, Tokens as Category of Smart Contract, Creating a Token, Deploying the Contract, Playing with Contracts.	6	Beginning Blockchain A Beginner’s Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar	Laptop, PPT, Google Meet

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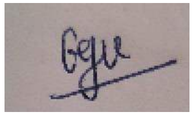
Paper-01 **Block Chain**, Unit-4	**Mining Ether:** Why? Ether's Source, Defining Mining, Difficulty, Self-Regulation, and the Race for Profit, How Proof of Work Helps Regulate Block Time, DAG and Nonce, Faster Blocks, Stale Blocks, Difficulties, Ancestry of Blocks and Transactions, Ethereum and Bitcoin, Forking, Mining, Geth on Windows, Executing Commands in the EVM via the Geth Console, Launching Geth with Flags, Mining on the Testnet, GPU Mining Rigs, Mining on a Pool with Multiple GPUs.	6	Beginning Blockchain A Beginner's Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet
	Cryptoecnomics: Introduction, Usefulness of cryptoeconomics, Speed of blocks, Ether Issuance scheme, Common Attack Scenarios.	6	Beginning Blockchain A Beginner's Guide to Building Blockchain Solutions-- Bikramaditya Singhal, Gautam Dhameja, Priyansu Sekhar Panda	Laptop, PPT, Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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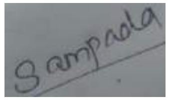

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRANALI DAYANAND THAKARE DEPARTMENT: IT

CLASS: M.Sc. IT (Human Computer Interaction) SEMESTER:IV MONTH: FEB-APR ACADEMICYEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the important aspects of implementation of human-computer interfaces.
- Identify the various tools and techniques for interface analysis, design, and evaluation.
- Identify the impact of usable interfaces in the acceptance and performance utilization of information systems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Human Computer Interaction	**The Interaction**: Models of interaction, Design Focus, Frameworks and HCI, Ergonomics, Interaction styles, **Elements of the WIMP interface,Interactivity** **Paradigms**: Introduction, Paradigms for interaction **Interaction design basics**: What is design?, The process of design, User focus, Cultural probes, Navigation design, the big button trap, Modes, Screen design and layout, Alignment and layout matters, Checking screen colors, Iteration and prototyping **HCI in the software process**: The software life cycle, Usability engineering , Iterative design and prototyping, Prototyping in practice, Design rationale	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION

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UNIT 2 Human Computer Interaction	**Design**: Principles to support usability, Standards, Guidelines, Golden rules and heuristics, HCI patterns **Implementation support**: Elements of windowing systems, Programming the application, Going with the grain, Using toolkits, User interface management **Systems Evaluation techniques:** What is evaluation?, Goals of evaluation, Evaluation through expert analysis,Evaluation through user participation, Choosing an evaluation method	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION
UNIT 3 Human Computer Interaction	**Design**: Principles to support usability, Standards, Guidelines, Golden rules and heuristics **HCI patterns Implementation support**: Elements of windowing systems, Programming the application, Going with the grain, Using toolkits, User interface management systems **Evaluation techniques**: What is evaluation?, Goals of evaluation, Evaluation through expert analysis, Evaluation through user participation, Choosing an evaluation method	12	1.Human Computer Interaction-Alan Dix, Janet Finlay, Gregory Abowd, Russell Beale Pearson Education 3rd 2. Designing the User Interface -Shneiderman B., Plaisant C., Cohen M., Jacobs S. Pearson 5th 2013	POWER POINT PRESENTATION

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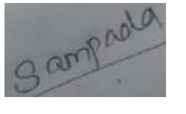
				T I O N

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -I	Elements of Modern Networking- The Networking Ecosystem ,Example Network Architectures, Ethernet, Wi-Fi, 4G/5G Cellular, Cloud Computing, Internet of Things, Network Convergence Unified Communications	6	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	Requirements and Technology- Types of Network and Internet Traffic, Demand: Big Data, Cloud Computing, and Mobile Traffic, Requirements: QoS and QoE, Routing, Congestion Control , SDN and NFV	6		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -IV	Defining and Supporting User Needs, Quality of Service, Integrated Services Architecture, Queuing Discipline, Differentiated Services, Forwarding PHB, Service Level Agreements, IP Performance Metrics	4	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	QoE: User Quality of Experience, QoE Considerations The QoE/QoS Layered Model, Measurements of QoE, Summarizing the QoE, Measurement Methods, Applications of QoE	4		PowerPoint presentation
	Network Design Implications of QoS and QoE Classification of QoE/ QoS Mapping Models, Black-Box Media-Based QoS/QoE Mapping Models, Glass- Box Parameter-Based QoS/QoE Mapping Models,Gray-Box QoS/QoE Mapping Models	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. I. T SEMESTER: II MONTH: February-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

a. To understand the state-of-the-art in network protocols, architectures and applications.
b. Analyze existing network protocols and networks.
c. Develop new protocols in networking

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Modern Networking Unit -V	Modern Network Architecture: Clouds and Fog, Cloud Computing, Cloud, Deployment Models, Cloud Architecture	4	Foundations of Modern Networking: SDN, NFV, QoE, IoT, and Cloud by William Stallings	PowerPoint presentation
	The Internet of Things: Components The IoT Era Begins, Components of IoT-Enabled Things, The Internet of Things: Architecture and Implementation, IoT Architecture	4		PowerPoint presentation
	Security Requirements, SDN Security Threats to SDN, NFV Security, Cloud Security, IoT Security	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. A.PALAV (MANE)**________________DEPARTMENT:_______**INFORMATION TECHNOLOGY**_____________________CLASS:____**MSC(IT)**_______________ SEMESTER:____**II**___________ MONTH: ______ **FEBRUARY-MAY** ___________ ACADEMIC YEAR:_____**2022-2023**________

LEARNING OBJECTIVE/S:

The learners will be able to :

- **Review the fundamental concepts of a digital image processing system.**
- **Analyze images in the frequency domain using various transforms.**
- **Evaluate the techniques for image enhancement and image restoration.**
- **Categorize various compression techniques.**
- **Interpret Image compression standards.**
- **Interpret image segmentation and representation techniques.**
- **Understand the relevant aspects of digital image representation and their practical implications.**
- **Have the ability to design pointwise intensity transformations to meet stated specifications and understand 2-D convolution, the 2-D DFT, and have the abitilty to design systems using these concepts.**
- **Have a command of basic image restoration techniques. Understand the role of alternative color spaces, and the design requirements leading to choices of color space.**
- **Appreciate the utility of wavelet decompositions and their role in image processing systems. Have an understanding of the underlying mechanisms of image compression, and the ability to design systems using standard algorithms to meet design specifications.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSIT204 Image Processing **Unit No -01**	Introduction: Digital Image Processing, Origins of Digital Image Processing, Applications and Examples of Digital Image Processing, Fundamental Steps in Digital Image Processing, Components of an Image Processing System,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Digital Image Fundamentals: Elements of Visual Perception, Light and the Electromagnetic Spectrum, Image Sensing and Acquisition, Image Sampling and Quantization, Basic Relationships Between Pixels, Basic Mathematical Tools Used in Digital Image Processing,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts
	Intensity Transformations and Spatial Filtering: Basics, Basic Intensity Transformation Functions, Basic Intensity Transformation Functions, Histogram Processing, Fundamentals of Spatial Filtering, Smoothing (Lowpass) Spatial Filters, Sharpening (Highpass) Spatial Filters, Highpass, Bandreject, and Bandpass Filters from Lowpass Filters, Combining Spatial Enhancement Methods, Using Fuzzy Techniques for Intensity Transformations and Spatial Filtering	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -02	Filtering in the Frequency Domain: Background, Preliminary Concepts, Sampling and the Fourier Transform of Sampled Functions, The Discrete Fourier Transform of One Variable, Extensions to Functions of Two Variables, Properties of the 2-D DFT and IDFT, Basics of Filtering in the Frequency Domain, Image Smoothing Using Lowpass Frequency Domain	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.

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	Filters, Image Sharpening Using Highpass Filters, Selective Filtering, Fast Fourier Transform.			
	Image Restoration and Reconstruction: A Model of the Image Degradation/Restoration Process, Noise Models, Restoration in the Presence of Noise Only-----Spatial Filtering, Periodic Noise Reduction Using Frequency Domain Filtering, Linear, Position-Invariant Degradations, Estimating the Degradation Function, Inverse Filtering, Minimum Mean Square Error (Wiener) Filtering, Constrained Least Squares Filtering, Geometric Mean Filter, Image Reconstruction from Projections	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -03	Wavelet and Other Image Transforms: Preliminaries, Matrix-based Transforms, Correlation, Basis Functions in the Time-Frequency Plane, Basis images, Fourier-Related Transforms, Walsh-Hadamard Transforms, Slant Transform, Haar Transform, Wavelet Transforms	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Color Image Processing: Color Fundamentals, Color Models, Pseudocolor Image Processing, Full-Color Image Processing, Color Transformations, Color Image Smoothing and Sharpening, Using Color in Image Segmentation, Noise in Color Images, Color Image Compression.	04	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Image Compression and Watermarking: Fundamentals, Huffman Coding, Golomb Coding, Arithmetic Coding, LZW Coding, Run-length Coding, Symbol-based Coding, 8 Bit-plane Coding, Block Transform Coding,	04	Digital Image Processing Gonzalez and Woods 4 rd Edition	Blackboard, Chalk and Duster. PPts.

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	Predictive Coding, Wavelet Coding, Digital Image Watermarking,		Pearson/Prentice Hall, 2018.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -04	Morphological Image Processing: Preliminaries, Erosion and Dilation, Opening and Closing, The Hit-or-Miss Transform, Morphological Algorithms, Morphological Reconstruction, Morphological Operations on Binary Images, Grayscale Morphology	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Image Segmentation I: Edge Detection, Thresholding, and Region Detection: Fundamentals, Thresholding, Segmentation by Region Growing and by Region Splitting and Merging, Region Segmentation Using Clustering and Superpixels, Region Segmentation Using Graph Cuts, Segmentation Using Morphological Watersheds, Use of Motion in Segmentation	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			
Unit No -05	Image Segmentation II: Active Contours: Snakes and Level Sets: Background, Image Segmentation Using Snakes, Segmentation Using Level Sets.	06	Digital Image Processing Gonzalez and Woods 4 rd Edition Pearson/Prentice Hall, 2018.	Blackboard, Chalk and Duster. PPts.
	Feature Extraction: Background, Boundary Preprocessing, Boundary Feature Descriptors, Region Feature Descriptors, Principal Components as Feature Descriptors, Whole-Image Features, Scale-Invariant Feature Transform (SIFT)	06	Digital Image Processing Gonzalez and Woods 4 rd Edition	Blackboard, Chalk and Duster. PPts.

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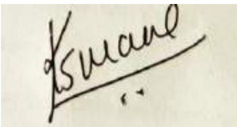
			Pearson/Prentice Hall, 2018.	
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12			



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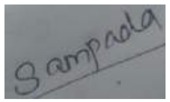

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: CS

CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- To learn how to design and program Python applications.
- To explore the innards of Python Programming and understand components of Python Program
- To define the structure and components of a Python program.
- To learn how to write loops and decision statements in Python
- To learn about inbuilt input/output operations and compound data types in Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURS ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming with Python (USCS102) Unit I	**Overview of Python:** History & Versions, Features of Python, Executionof a Python Program, Flavours of Python, Innards of Python, PythonInterpreter, Memory Management in Python, Garbage Collection in Python,Comparison of Python with C and Java, Installing Python, Writing and Executing First Python Program, Getting Help, IDLE	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Data Types, Variables and Other Basic Elements: Comments, Docstrings, Data types- Numeric Data type, Compound Data Type, Boolean Data type, Dictionary, Sets, Mapping, Basic Elements of Python,Variables	04		

	Input and Output Operations: Input Function, Output Statements, The print() function, The print("string") function, The print(variables list) function, The print(object) function, The print(formatted string) function, Command Line Arguments	04		

	Control Statements: The if statement, The if ... else Statement, The „if ...elif ... else" Statement, Loop Statement- while loop, for loop, Infinite loop, Nested loop, The else suite, break statement, continue statement, pass statement, assert statement, return statement	03		

Introduction to Programming with Python (USCS102) Unit II	**Operators**: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Arrays: Creating Arrays, Indexing and Slicing of Arrays, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic slicing, Advanced Indexing, Dimensions of Arrays, Attributes of an Array, The ndim Attribute, The shape Attribute, The size Attribute, The itemsize Attribute	04		
	Functions: Function definition and call, Returning Results, Returning Multiple Values from a Function, Built-in Functions, Difference between a Function and a Method, Pass Value by Object Reference, Parameters and Arguments, Formal and Actual Arguments, Positional Arguments, Keyword Arguments, Default Arguments, Arbitrary Arguments, Recursive Functions, Anonymous or Lambda Functions, Using Lambda with the filter() Function, Using Lambda with the map() Function, Using Lambda with the reduce() Function	05		

	Modules:Introduction to Modules in Python	02		
Introduction to Programming with Python (USCS102) Unit III	**Strings**: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing and Slicing, Repeating and Concatenating Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Immutability, Splitting and	04	Python: The Complete Reference, Martin C. Brown, McGraw Hill, 2018	Black board and chalk
	Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting Strings, Searching in the Strings, Testing Methods, Formatting Strings, Finding the Number of Characters and Words, Inserting Substrings into a String	04		
	List and Tuples: Lists, List Functions and Methods, List Operations, List Slices, Nested Lists, Tuples, Functions in Tuple	03		
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Converting Lists into Dictionary, Converting Strings into Dictionary, Passing Dictionaries to Functions, Sorting the Elements of a Dictionary using Lambda, Ordered Dictionaries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Suvarna S Kannav DEPARTMENT: INFORMATION TECHNOLOGY
CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER-NOVEMBER ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: The learners will be able to : Students will learn basic skills and increase their sustainable interest in the Linux Operating System. It will also assist you build a Linux solution for real world problems and increase the knowledge required to comprehend the Linux operating system and its practical application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS103, LINUX Operating System, UNIT-I	**Linux operating system and Basics**: History, GNU Info and Utilities, Various Linux Distributions, The Unix/Linux architecture, Features of Unix/Linux, Starting the shell, Shell prompt, Command structure, File Systems and Directory Structure, man pages, more documentation pages	04	"Linux Command line and Shell Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill.	PowerPoint Presentation, OHP, Chalk and Black Board
	Basic Bash shell commands: General purpose utility Commands, basic commands, Various file types, attributes and File handling Commands, Handling Ordinary Files. More file attributes	03		
	Advanced Bash shell commands: Simple Filters, Filters using regular expressions.	04		
	The Linux environment variable: Setting, Locating and removing environment variables like PATH etc, Default shell environment variables, Using command aliases.	04		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		
	Understanding Linux file permission: Linux security, Using Linux groups, Decoding file permissions, Changing security setting, Sharing files.	04	"Linux Command line and Shell	PowerPoint Presentation, OHP, Chalk and Black Board

USCS103, LINUX Operating System, UNIT-II	**Linux Security:** Understanding Linux Security, uses of root, sudo command, working with passwords, Understanding ssh.	04	Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill.	
	Networking: TCP/IP Basics, TCP/IP Model, Resolving IP addresses, Applications, ping, telnet, ftp, DNS	04		
	Working withEditors: awk, sed and Introduction to vi	03		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		
USCS103, LINUX Operating System, UNIT-III	**Basic script building:** Using multiple commands, Creating script files, Displaying messages, Using variables, Redirecting Input and Output, Pipes performing math, Exiting the script.	05	"Linux Command line and Shell Scripting Bible", Richard Blum, Wiley India. "Unix: Concepts and Applications", Sumitabha Das, 4th Edition, McGraw Hill. "Official Ubuntu Book", Matthew Helmke& Elizabeth K.	PowerPoint Presentation, OHP, Chalk and Black Board
	Using structured commands: Working with if-then, if-then-else and nested if statements, test command, Compound condition testing, while command, until command, case command.	04		
	Script and Process control: Handling signals, Running scripts in background mode, Running scripts without a console, Job control, Job scheduling commands: ps, nice, renice, at, batch, cron table, Running the script at boot	06		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**15**		

			Joseph with Jose Antonio Rey and Philips Ballew, 8th Ed.	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AVINASH DILIP SONAWANE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to : Students learn differentiate between Open Source and Proprietary software and Licensing. Recognize the applications, benefits and features of Open-Source Technologies.Gain knowledge to start, manage open-source projects

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS104, Open Source Technologies UNIT-I	Introduction to Open-Source: Open Source, Need and Principles of OSS, Open-Source Standards, Requirements for Software, OSS success, Free Software, Examples, Licensing, Free Vs. Proprietary Software, Free Software Vs. Open-Source Software, Public Domain. History of free software, Proprietary Vs Open-Source Licensing Model, use of OpenSource Software, FOSS does not mean no cost. History: BSD, The Free Software Foundation and the GNU Project.	05	1.The Linux Documentation Project: http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/ 5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation: http://www.linuxfoundation.org/	Chalk and Black Board
	Open-Source Principles and Methodology: Open-Source History, OpenSource Initiatives, Open Standards Principles, Methodologies, Philosophy, Software freedom, Open-Source Software Development, Licenses, Copyright vs. Copy left, Patents, Zero marginal cost, Income-generation Opportunities, Internationalization.	05		

	. Licensing: What Is A License, How to create your own Licenses, Important FOSS Licenses (Apache, BSD, PL,	05		

	LGPL), copyrights and copy lefts, Patent			
	TOTAL	15		
USCS104, Open Source Technologies UNIT-II	Open-Source projects: Starting and maintaining own Open-Source Project, Open-Source Hardware, Open-Source Design, Open-source Teaching, Open-source media.	05	1.The Linux Documentation Project: http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/ 5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation: http://www.linuxfoundation.org/	Chalk and Black Board
	Collaboration: Community and Communication, Contributing to Open Source Projects Introduction to GitHub, interacting with the community on GitHub, Communication and etiquette, testing open-source code, reporting 15 Page 17 of 50 issues, contributing code. Introduction to Wikipedia, contributing to Wikipedia or contributing to any prominent open-source project of student's choice.	05		
	Open-Source Ethics and Social Impact: Open source vs. closed source, Open-source Government, Ethics of Open-source, Social and Financial impacts of open-source technology, Shared software, Shared source, Open Source as a Business Strategy	05		
	TOTAL	15		

USCS104, Open Source Technologies	Understanding Open-Source Ecosystem: Open-Source Operating Systems: GNU/Linux, Android, Free BSD, Open Solaris. Open-Source Hardware, Virtualization Technologies, Containerization Technologies: Docker, Development tools, IDEs, Debuggers, Programming	05	1.The Linux Documentation Project:http://www.tldp.org/ 2. Docker Project Home: http://www.docker.com 3. Linux kernel Home: http://kernel.org 4. Open Source Initiative: https://opensource.org/	Chalk and Black Board

UNIT-III	languages, LAMP, Open-Source Database technologies		5. Linux Documentation Project: http://www.tldp.org/ 6. Wikipedia: https://en.wikipedia.org/ 7.https://en.wikipedia.org/wiki/Wikipedia:Contributing_to_Wikipedia 8. Github: https://help.github.com/ 9. The Linux Foundation:http://www.linuxfoundation.org/	
	Case Studies: Example Projects: Apache Web server, BSD, GNU/Linux, Android, Mozilla (Firefox), Wikipedia, Drupal, WordPress, Git, GCC, GDB, GitHub, Open Office, LibreOffice Study: Understanding the developmental models, licensing, mode of funding, commercial/non-commercial use.	10		
	TOTAL	15		

A.D. Sonawane

Jagruti

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Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 1

MONTH: August to November

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- The learners will be able to know descriptive statistical concepts
- The learner will able to study probability concepts required for computer learners.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper:	**a) Data types and Data Presentation**: ● Data types: ➢ Attribute and variable ➢ discrete and continuous variable ➢ Different types of Scale: Nominal, Ordinal , Interval and Ratio ➢ Univariate and	**5**	**(Gupta & Kapoor: Chp 2: 2.1 - 2.2 and Schaum Series: Chp 1 & 2)**	Black board, chalk and Duster

	Bivariate Distribution ➢ Types of Classification			

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Descriptive statistics **<u>Unit 1</u>**	● Data presentation: frequency distribution,histogram, O give curves,			
	b) Introduction to R: ● Data input, Arithmetic operators, vector operations, Matrix operations, Data frames, Built-in Functions (e. g : seq(), round(), rep(), sort(), cut() , etc.) ● Frequency Distribution, Grouped frequency Distribution, Diagrams and Graphs, Summary Statistics for raw data and grouped frequency distribution.	**5**	(Statistics Using R by Purohit,S.G. , GoreS.D., Deshmukh S. R. (2008), Narosa Publishing House, New Delhi)	Black board, chalk and Duster
	Measures of Central Tendency: ● Concept of Average /Central tendency ● Characteristics of good	**5**	Gupta & Kapoor: Chp 2 and Schaum	Black board, chalk and Duster

	measure of central tendency ● Arithmetic mean , Median , Mode – Definition and example for ungrouped and grouped data, effect of shift of origin and change of scale, Merits and Demerits, Combined Arithmetic mean ● Partition values : Quartiles , Deciles and Percentiles – examples for ungrouped and grouped data		Series: Chp 3)	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

	b) Moments: ● Concept of Moments, ● Raw moments, Central moments, ● Relation between raw and central moments.	3	Gupta, S.C. and kapoor V.k.(1987): fundamental of mathematica l statistics	Black board, chalk and Duster

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	c) Measures of Skewness and Kurtosis: ● Concept of Skewness and Kurtosis, ● Measures based on moments, quartiles.	5	Gupta & Kapoor: Chp 3 and Schaum Series: Chp 5)	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

<u>Unit 3</u>	**Correlation:** ● Concept of correlation, Types and interpretation, ● **Measure of Correlation:** ➢ Scatter diagram and interpretation; ➢ Karl Pearson's coefficient of correlation (r): Definition, examples for ungrouped and grouped data, effect of shift of origin and change of scale, properties; ➢ Spearman's rank correlation coefficient: Definition, examples of with and without repetition. ➢ Concept of Multiple correlation.	8	Gupta & Kapoor: Chp 10 and Schaum Series: Chp 14 & 15	Black board, chalk and Duster

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	b) Regression: ● Concept of dependent (response) and independent (predictor) variables, ● Concept of regression, Types and prediction, ● Difference between correlation and regression, Relation between correlation and regression. ● Linear Regression - Definition, examples using least square method and regression coefficient, coefficient of determination, properties. ● Concept of Multiple regression and Logistic regression.	7	Gupta & Kapoor: Chp 10 and Schaum Series: Chp 14 & 15)	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-VRUNDA VISHAL GHARAT DEPARTMENT: CS
CLASS: FYCS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

To have an understanding of Digital systems and operation of a digital computer.
To learn different architectures & organizations of memory systems, processor organization and control unit.
To understand the working principles of multiprocessor and parallel organization‟s as advanced computer architecture

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Digital Systems & Architecture (USCS101) UNIT I	**Fundamentals of Digital Logic**: Boolean algebra, Logic Gates, Simplification of Logic Circuits: Algebraic Simplification, Karnaugh Maps. Combinational Circuits: Adders, Mux, De-Mux, Sequential Circuits: FlipFlops (SR, JK & D), Counters: synchronous and asynchronous Counter **Computer System**: Comparison of Computer Organization & Architecture, Computer Components and Functions, Interconnection Structures. Bus Interconnections, Input / Output: I/O Module, Programmed I/O, Interrupt Driven I/O, Direct Memory Acces	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

Digital Systems & Architecture (USCS101) UNIT II	**Memory System Organization:** Classification and design parameters, Memory Hierarchy, Internal Memory: RAM, SRAM and DRAM, Interleaved and Associative Memory. Cache Memory: Design Principles, Memory mappings, Replacement Algorithms, Cache performance, Cache Coherence. Virtual Memory, External Memory: Magnetic Discs, Optical Memory, Flash Memories, RAID Levels Processor Organization: Instruction Formats, Instruction Sets, Addressing Modes, Addressing Modes Examples with Assembly Language [8085/8086 CPU**],** **Processor Organization,** Structure and Function. Register 15 Page 9 of 50 Organization, Basic Microprocessor operations: Data Transfer (Register / Memory) Operations, Arithmetic & Logical Operations, Instruction Cycle, Instruction Pipelining. Introduction to RISC and CISC Architecture, Instruction Level Parallelism and Superscalar Processors: Design Issues III Control Unit: Micro-Operations, Functional Requirements, Processo	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

Digital Systems & Architecture (USCS101) UNIT III	**Control Unit:** Micro-Operations, Functional Requirements, Processor Control, Hardwired Implementation, Micro-programmed Control. Fundamentals of Advanced **Computer Architecture:** Parallel Architecture: Classification of Parallel Systems, Flynn‟s Taxonomy, Array Processors, Clusters, and NUMA Computers. Multiprocessor Systems: Structure & Interconnection Networks, Multi-Core Computers: Introduction, Organization and Performance.	15	1. M. Mano, Computer System Architecture 3rd edition, Pearson	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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TEACHING PLAN (UNIT 1 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: FY B.SC COMPUTER SCIENCE SEMESTER: I MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Define a function, its domain, co domain, range and bijective functions, composite and inverse functions
- Check whether a given relation is equivalence or partial order relation.
- Represent the given relation using diagraph, adjacency matrix and arrow diagram.
- Solve a recurrence relation using various methods like back tracking , generating function method etc.
- Explain and solve the tower of Hanoi puzzle.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISCRETE MATHEMATICS Unit 1 Recurrence relations	➢ Functions, its domain, co domain and range ➢ Bijective, composite and inverse functions ➢ Relations: definition, examples and properties ➢ Equivalence & partial order relation, Hasse diagram ➢ Recurrence relation: definition, formulation & solving ➢ Tower of Hanoi puzzle	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 2 PLAN)

NAME OF THE STAFF: SHREYA TANEJA　　DEPARTMENT: MATHEMATICS

CLASS: FY B.SC COMPUTER SCIENCE　　SEMESTER: I　　MONTH: October-November　　ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of fundamental principle of counting, permutations and combinations.
- State and prove binomial theorem, Pascal's identity, Vandermonde's identity.
- Find the number of ways of doing a task using permutations and combinations.
- State and use Pigeonhole principle to solve the problems.
- Understand the concept of finite state automata and finite state machine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISCRETE MATHEMATICS (Unit 2) Counting principles, Languages and Finite state machines	➢ FPC , permutations, combinations ➢ Binomial theorem, Pascal's & Vandermonde's identity ➢ Sum & product rule, pigeonhole principle ➢ Inclusion exclusion principle ➢ Languages, regular expression and regular grammar ➢ FSM, FSA, Godel numbers, turing machines	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

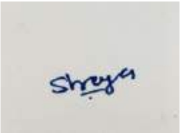
CLASS: FY B.SC COMPUTER SCIENCE SEMESTER: I MONTH: November-December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Define graph and its types, adjacency and incidence matrix.
- Draw adjacency and incidence matrix of the given graph and vice versa.
- Find out the shortest path of weighted graph using Warshall's algorithm.
- Traverse a tree using inorder, preorder and postorder algorithm.
- Draw a tree for algebraic expressions and vice versa.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISCRETE MATHEMATICS **(Unit 3)** Graphs & Trees	➢ Definition of Graphs and its types ➢ Diagraph, incidence and adjacency matrix ➢ Warshall's algorithm, BFS, DFS ➢ Trees : definition, types and properties ➢ Traversing binary trees ➢ Algorithms for searching, inserting and deleting in a binary tree	2 2 2 2 2 2	CALCULUS & ANALYTIC GEOMETRY (THOMAS & FINNY)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS : Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS
CLASS: FYCS SEMESTER: SEM-1 MONTH: AUG-DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- Develop their soft skills and develop their personality together with their technical skills.
- Understand various issues in personal and Profession communication and learn to overcome them.
- Know about various aspects of soft skills and learn ways to develop personality
- Understand the importance and type of communication in personal and professional environment.
- Learn about Leadership, team building, decision making and stress management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
7 SOFT SKILLS DEVELOPMENT UNIT 1	**Introduction to Soft Skills** **Soft Skills: An Introduction –** Definition and Significance of Soft Skills; Process, Importance and Measurement of Soft Skill Development.	2	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Personality Development: Knowing Yourself, Positive Thinking, Johari's Window, Physical Fitness	2		
	Emotional Intelligence: Meaning and Definition, Need for Emotional Intelligence, Intelligence Quotient versus Emotional Intelligence Quotient, Components of Emotional Intelligence,	3		

	Competencies of Emotional Intelligence, Skills to Develop Emotional Intelligence			

	Positivity and Motivation: Developing Positive Thinking and Attitude; Driving out Negativity; Meaning and Theories of Motivation; Enhancing Motivation Levels	2		
	Etiquette and Mannerism: Introduction, Professional Etiquette, Technology Etiquette	2		
	Ethical Values: Ethics and Society, Theories of Ethics, Correlation between Values and Behavior, Nurturing Ethics, Importance of Work Ethics, Problems in the Absence of Work Ethics	3		
UNIT 2	**Basic Skills in Communication:** **Components of effective communication:** Communication process and handling them, Composing effective messages, Non – Verbal Communication: its importance and nuances: Facial Expression, Posture, Gesture, Eye contact, appearance (dress code).	3	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Communication Skills: Spoken English, Phonetics, Accent, Intonation	2		
	Employment Communication: Introduction, Resume, Curriculum Vitae, Scannable Resume, Developing an Impressive Resume, Formats of Resume, Job Application or Cover Letter	3		
	Job Interviews: Introduction, Importance of Resume, Definition of Interview, Background Information, Types of Interviews, Preparatory Steps for Job Interviews, Interview Skill Tips, Changes in the Interview Process, FAQ During Interviews	3		
	Group Discussion: Introduction, Ambience/Seating Arrangement for Group Discussion, Importance of Group Discussions, Difference	3		

	between Group Discussion, Panel Discussion and Debate, Traits,			

	Types of Group Discussions, topic based and Case based Group Discussion, Individual Traits			
UNIT 3	**Academic and Professional Skills:** **Professional Presentation:** Nature of Oral Presentation, planning a Presentation, Preparing the Presentation, Delivering the Presentation	3	**Soft Skills: an Integrated Approach to Maximise Personality** by Gajendra S. Chauhan, Sangeeta Sharma, Wiley India	Chalk and Board
	Creativity at Workplace: Introduction, Current Workplaces, Creativity, Motivation, Nurturing Hobbies at Work, The Six Thinking Hat Method.	3		
	Capacity Building: Learn, Unlearn and Relearn*:* Capacity Building, Elements of Capacity Building, Zones of Learning, Ideas for Learning, Strategies for Capacity Building	3		
	Leadership and Team Building*:* Leader and Leadership, Leadership Traits, Culture and Leadership, Leadership Styles and Trends, Team Building, Types of Teams,	3		
	Decision Making and Negotiation: Introduction to Decision Making, Steps for Decision Making, Decision Making Techniques, Negotiation Fundamentals, Negotiation Styles, Major Negotiation Concepts	3		
	Stress and Time Management*:* Stress, Sources of Stress, Ways to Cope with Stress	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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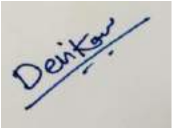

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT:CS

CLASS:SYCS SEMESTER: SEM-3 MONTH:JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
Have a knowledge and understanding of geometrical transformations and 3D viewing.
Have a knowledge and understanding of techniques for representing 3D geometrical objects Explain different Image enhancement techniques
Understand and review image transforms

PAPER,TITLE , UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 3 **Data Structures** **UNIT 1**	**Abstract Data Type**: Different Data Types, different types of data structures & their classifications, Introduction to ADT, Creating user-specific ADT **Linked Structures:** ADT for linked list, Advantages & Disadvantages, Singly Linked List-Traversing, Searching, Prepending and Removing Nodes, applications of linked list like polynomial equation	7	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD, PPT
	Stacks: Stack ADT for Stack, Advantages & Disadvantages, Applications of stack like balanced delimiter, prefix to postfix notation	4		

	Queues: Queue ADT, Advantages & Disadvantages, linked representations. Circular Queue operations, Dequeues, applications of queue like job scheduling queues	4		
UNIT 2	**Doubly Linked list**: ADT of doubly linked list, Advantages & Disadvantages, Insertion and deletion of nodes at various positions**.**	6	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD,PPT
	Trees: ADT for Tree Structure. Advantages & disadvantages, Binary TreeProperties, Implementation and Traversals, Binary Search Tree, Balanced BST, Threaded Binary Trees, AVL Trees, Applications of Tree like Huffman Coding,	4		
	Priority Queues & Heaps: Priority Queue, Priority Queue ADT, Advantages and Disadvantages, Applications, Heaps, types of heaps, Heapifying the element,	5		
UNIT 3	**Graph**: Introduction, Graph ADT, Advantages and Disadvantages, Graph Representation using adjacency matrix and adjacency list, Graph operations like insertion and deletion of nodes, Graph Traversals using BFS & DFS, Applications of Graphs like shortest path algorithms,	8	Data Structures And Algorithms Made Easy-by Narasimha Karumanchi	CHALK AND BOARD,PPT

	Hashing: Hash Table ADT, Advantages & Disadvantages, Concept of hashing, hash table, hash functions, collision, collision avoidance techniques, Applications of hashing	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK DEPARTMENT:IT SUBJECT:OS CLASS: SYCS SEM:III

MONTH:JUNE-SEPT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

To provide a understanding of operating system, its structures and functioning

Develop and master understanding of algorithms used by operating systems for various purposes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
303 UNIT I	**Introduction and Operating-Systems Structures**: Definition of Operating system, Operating System's role, **Operating-System Operations**, Functions of Operating System, Computing Environments Operating-System Structures: Operating-System Services, User and Operating-System Interface, System Calls, Types of System Calls, Operating-System Structure **Processes:** Process Concept, Process Scheduling, Operations on Processes, Interprocess Communication **Threads**: Overview, Multicore Programming, Multithreading Models	18	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point

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303 UNIT II	**Process Synchronization**: General structure of a typical process, race condition, The Critical-Section Problem, Peterson's Solution, Synchronization Hardware, Mutex Locks, Semaphores, Classic Problems of Synchronization, Monitors **CPU Scheduling**: Basic Concepts, Scheduling Criteria, Scheduling Algorithms (FCFS, SJF, SRTF, Priority, RR, Multilevel Queue Scheduling, Multilevel Feedback Queue Scheduling), Thread Scheduling **Deadlocks:** System Model, Deadlock Characterization, Methods for Handling Deadlocks, Deadlock Prevention, Deadlock Avoidance, Deadlock Detection, Recovery from Deadlock	15	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point
303 UNIT III	**Main Memory**: Background, Logical address space, Physical address space, MMU, Swapping, Contiguous Memory Allocation, Segmentation, Paging, Structure of the Page Table **Virtual Memory:** Background, Demand Paging, Copy-on- Write, Page Replacement, Allocation of Frames, Thrashing **Mass-Storage Structure**: Overview, Disk Structure, Disk Scheduling, Disk Management **File-System Interface**: File Concept, Access Methods, Directory and Disk Structure, File-System Mounting, File Sharing **File-System Implementation**: File-System Structure, File-System Implementation, Directory Implementation, Allocation Methods, Free-Space Management	15	Abraham Silberschatz, Peter Galvin, Greg Gagne, Operating System Concepts, Wiley,8th Edition	Computer, Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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Teaching plan
sycs sem 3
2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar DEPARTMENT: computer science

CLASS: S.Y.B.Sc.(CS)

SEMESTER: June to September
ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S:

The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS302 **Linear Algebra**	Field: ● Introduction to complex number,numbers in python,Abstracting over field ● playing with GF(2),	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board, chalk and duster

Unit 1			Learning, 4th Edition, 2007	
	Vectors: • Vectors are functions, • Vector addition and scalar multiplication • Combining vector addition and scalar multiplication • Geometry of sets of vectors	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	• Dictionary based representation of vectors • Dot product • Solving triangular system of linear equations • Support vector Machine-Introduction, Mechanism	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	The Vector Space : • Homogeneous and no- homogeneous equation	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	• Linear combination and linear span	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra** **Unit 2**	Matrix: ● Matrices as vectors, Column space and row space, transpose ● Matrix -vector and vector-matrix multiplication in terms of linear combination ● Matrix -vector and vector-matrix multiplication in terms of dot-product	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	● Null space, computing Sparse matrix, vector product ● Linear function ● Inner product and outer product ● From function inverse to matrix inverse	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	Basis: ● Coordinate system,Two greedy algorithm for finding set of generators ● Minimum spanning forest and GF(2) ● Linear dependence and independence	2	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster
	Basis: ● Basis, unique representation,change of basis ● Computational problems involving finding a basis	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board,chalk and duster

			Learning, 4th Edition, 2007	
	Dimensions: ● Dimension and rank, ● Direct sum ● Dimension and linear function ● The annihilator Gaussian elimination: ● Row echelon form, Gaussian elimination over GF(2) ● Solving matrix - vector equation using Gaussian distribution ● Finding basis for null space Factoring integers	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra** **<u>Unit 3</u>**				
	Inner product: ● The inner product for vectors over field ● Orthogonality	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage	Black board, chalk and duster

			Learning, 4th Edition, 2007	
	Orthogonalisation: ● Projection orthogonal to multiple vectors ● Projecting orthogonal to mutually orthogonal vectors ● Finding an orthogonal set of generators ● Orthogonal complement	4	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	Eigen vectors: ● Modeling discrete dynamic processes ● Diagonalization of the Fibonacci matrix ● Finding Eigen values and Eigen vectors ● Coordinate representation in terms of Eigen vectors	5	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster
	● The internet worm ● Markow chains ● Modeling a web surfer-page rank	3	Linear Algebra and Its Applications, Gilbert Strang, Cengage Learning, 4th Edition, 2007	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: CS CLASS:

SYCS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- To understand the concepts of Hyper Text Markup Language and Cascading Style Sheets.
- To learn JavaScript for creating dynamic websites.
- To learn various operations performed on data among web applications using XML
- To learn Server-Side Programming using PHP

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
WEB TECHNOLOGIE S (USCS306) Unit I	**HTML5:** Fundamental Elements of HTML, Formatting Text in HTML, Organizing Text in HTML, Links and URLs in HTML, Tables in HTML, Images on a Web Page, Image Formats, Image Maps, Colours, FORMs in HTML, Interactive Elements, Working with Multimedia - Audio and Video File Formats, HTML elements for inserting Audio / Video on a web page	8	HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press	PPT, Black Board and Chalk
	CSS: Understanding the Syntax of CSS, CSS Selectors, Inserting CSS in an HTML Document, CSS properties to work with background of a Page, CSS properties to work with Fonts and Text Styles, CSS properties for positioning an element	7		
WEB TECHNOLOGIE S (USCS306)	**JavaScript:** Using JavaScript in an HTML Document, Programming Fundamentals of JavaScript – Variables, Operators, Control Flow Statements, Popup Boxes, Functions – Defining and Invoking a Function, Defining Function	6	HTML 5 Black Book, Covers CSS 3, JavaScript,	PPT, Black Board and Chalk

Unit II	arguments, Defining a Return Statement, Calling Functions with Timer		XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press	
	JavaScript Objects - String, RegExp, Math, Date, Browser Objects - Window, Navigator, History, Location, Document, Cookies, Document Object Model, Form Validation using JavaScript	2		PPT, Black Board and Chalk
	XML: Comparing XML with HTML, Advantages and Disadvantages of XML, Structure of an XML Document, XML Entity References, DTD, XSLT: XSLT Elements and Attributes - xsl:template, xsl:apply-templates, xsl:import, xsl:call-template, xsl:include, xsl:element, xsl:attribute, xsl:attribute-set, xsl:value-of	7		PPT, Black Board and Chalk
WEB TECHNOLOGIES (USCS306) Unit III	**AJAX**: AJAX Web Application Model, How AJAX Works, XMLHttpRequest Object – Properties and Methods, Handling asynchronous requests using AJAX	4	HTML 5 Black Book, Covers CSS 3, JavaScript, XML, XHTML, AJAX, PHP and jQuery, 2ed, Dreamtech Press, PHP: A Beginners Guide, Vikram Vaswani, TMH	PPT, Black Board and Chalk
	PHP: Variables and Operators, Program Flow, Arrays, Working with Files and Directories, Working with Databases, Working with Cookies, Sessions and Headers	7		PPT, Wamp Server, Black Board and Chalk
	Introduction to jQuery: Fundamentals, Selectors, methods to access HTML attributes, methods for traversing, manipulators, events, effects	4		PPT, Black Board and Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(CS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understand the fundamentals of content creation for Blog, Website etc.
- Acquire the ability to write and edit in a variety of styles and procedures
- To develop the creative abilities.
- To acquire essential language skills for editors.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS3071 Paper 7 **Creative Content Writing** **UNIT I**	**Basics of Content writing:** Introduction to Content Writing, Learning Tone in Writing and Its Types, Comprehending style in writing and its Types, Common Grammatical Errors.	5	Content Writing Handbook, Author:Kounal Gupta, 2020, Henry Harvin. Feldar, Lynda. Writing for the Web: Creating Compelling Web Content Using Words, Pictures, and Sound. New Riders, CA, USA, 2011	Microsoft Powerpoint Presentation
	Best Practices for Writing for the Web: Making our story Elegant, Professional, Write with an Attitude, Keep Verbs Active, List Items, Chunk Information, Title and Subtitle, Organize for Your Audience.	5		
	Things Marketers Write: The Ideal Length for Blog Posts, Podcast, Facebook Posts, Tweets, and Other Marketing Content.	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS3071 Paper 7 **Creative Content Writing** **UNIT II**	**Social Media Writing:** Writing for Twitter, writing with Hashtags, Writing Social Media with Humor, writing for Facebook, writing for LinkedIn, Writing Your LinkedIn Profile, writing for Email, Writing Landing Pages, Writing Headlines, writing a Home Page, Writing the About Us Page, Writing Better Blog Posts, Writing Annual Reports.	7	Content Writing Handbook, Author:Kounal Gupta, 2020, Henry Harvin. Feldar, Lynda. Writing for the Web: Creating Compelling Web Content Using Words, Pictures, and Sound. New Riders, CA, USA, 2011	Microsoft Powerpoint Presentation
	Infographics: Visual Communication- What Are Infographics?, The Science of Visualization, Creating Infographics- Purpose, The Art of Observation, Processing Your Ideas, Designing Your Infographics, Publishing Your Infographics.	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SONALI DATTATRAY SALVANIKAR DEPARTMENT: IT-CS

CLASS:SYCS SEMESTER: SEM-III MONTH: JULLY- SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Master concepts of stored procedure and triggers and its use.
- Learn about using PL/SQL for data management and understand concepts.
- Implementations of transaction management and crash recovery.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-4 DBMS, UNIT-1	**Stored Procedures:** Types and benefits of stored procedures, creating stored procedures, executing stored procedures, altering stored procedures, viewing stored procedures.	4	SQL,PL/SQL - The Programming language of Oracle by Ivan Bayross ,	PPT, GoogleMeet, Jamboard , slido, SQL command line ,Google form.
	Triggers: Concept of triggers, Implementing triggers – creating triggers, Insert, delete, and update triggers, nested triggers, viewing, deleting and modifying triggers, and enforcing data integrity through triggers.	4		
	Sequences: creating sequences, referencing, altering and dropping a sequence.	2		

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	File Organization and Indexing: Cluster, Primary and secondary indexing, Index data structure: hash and Tree based indexing	3	Database Management Systems by Ramakrishnam, Gehrke.	
	Comparison of file organization: cost model, Heap files, sorted files, clustered files. Creating, dropping and maintaining indexes.	2		
UNIT-2	**Fundamentals of PL/SQL:** Defining variables and constants, PL/SQL expressions and comparisons: Logical Operators, Boolean Expressions, CASE Expressions Handling.	3	SQL,PL/SQL - The Programming language of Oracle by Ivan Bayross	PPT, GoogleMeet, Jamboard , slido, SQL command line , Google form..
	Null Values in Comparisons and Conditional Statements, PL/SQL Datatypes: Number Types, Character Types, Boolean Type, Datetime and Interval Types.	3		
	Overview of PL/SQL Control Structures: Conditional Control: IF and CASE Statements, IF-THEN Statement, IF-THEN-ELSE Statement,	5		
	CASE Statement, Iterative Control: LOOP and EXIT Statements, WHILE-LOOP, FOR-LOOP, Sequential Control: GOTO and NULL Statements	4		
UNIT 3	**Transaction Management:** ACID Properties, Serializability, Two-phase Commit Protocol, Concurrency Control, Lock Management	3	SQL,PL/SQL - The Programming	
	Lost Update Problem, Inconsistent Read Problem , Read-Write Locks, Deadlocks Handling, Two Phase Locking protocol	4		

	DCL Statements: Defining a transaction, Making Changes Permanent with COMMIT, Undoing Changes with ROLLBACK, Undoing Partial Changes with SAVEPOINT and ROLLBACK.	2	language of Oracle by Ivan Bayross, Database Management Systems by Ramakrishnam, Gehrke	PPT, GoogleMeet, Jamboard , slido, SQL command line ,Google form.
	Crash Recovery: ARIES algorithm. The log based recovery, recovery related structures like transaction and dirty page table	4		
	Write-ahead log protocol, check points, recovery from a system crash, Redo and Undo phases.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. SAMPADA DESHMUKH DEPARTMENT: INFORMATION TECHNOLOGY CLASS: T.Y.C.S.

SEMESTER: V MONTH: JUNE - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the concepts of basic computer security, Network Security and Cryptography.
- Understand different techniques of cryptography.
- Learn security threats and vulnerabilities and identify security problems.
- Identify threats of Network Security and apply protocol for the network.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS504 Unit 1, **Information and Network Security**	Security Trends, The OSI Security Architecture, Security Attacks, Security Services, Security Mechanisms	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Classical Encryption Techniques: Symmetric Cipher Model, Substitution Techniques . Transposition Techniques, Steganography, Block Cipher Principles, The Data Encryption Standard, The Strength of DES	04	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk

	Multiple encryption Triple DES Advanced Encryption Algorithm	02	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk
	Principles of public key cryptosystem concept and working Modes of operation Block cipher	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Stream cipher RSA Algorithm concept RSA algorithm problem solving	03	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk
USCS504, Unit 2, **Information and Network Security**	**Key Management:** Public-Key Cryptosystems Key Management Diffie-Hellman Key Exchange	03	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Message Authentication and Hash Functions: Authentication Requirements, Authentication Functions, Message Authentication Codes Hash Functions, Security of Hash Functions and Macs,	04	Cryptography and Network Security, Atul Kahate, Tata McGraw-Hill, 2013.	PowerPoint Presentation , Black board chalk

	HMAC Secure Hash Algorithm	04	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk

	Digital Signatures and Authentication: Digital Signatures, Authentication Protocols			
	Digital Signature Standard **Authentication Applications:** Kerberos, X.509 Authentication, Public-Key Infrastructure	04	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
USCS504, Unit 3, **Information and Network Security**	**Electronic Mail Security:** Pretty Good Privacy, S/MIME **IP Security:** Overview, Architecture, Authentication Header, Encapsulating Security Payload, Combining Security Associations, Key Management	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Web Security: Web Security Considerations, Secure Socket Layer and Transport Layer Security, Secure Electronic Transaction **Intrusion:** Intruders, Intrusion Techniques, Intrusion Detection	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk
	Malicious Software: Viruses and Related Threats, Virus Countermeasures, DDOS **Firewalls:** Firewall Design Principles, Types of Firewalls	05	Cryptography and Network Security: Principles and Practice 5th Edition, William	PowerPoint Presentation , Black board chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: TYCS

SEMESTER: V MONTH: July-Sept ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

•To understand the details of web services technologies like SOAP, WSDL, and UDDI. To learn how to implement and deploy web service client and server.

•To understand the design principles and application of SOAP and REST based web services (JAX-Ws and JAX-RS).

•To understand WCF service. To design secure web services and QoS of Web Services

The learners will be able to:

•Emphasis on SOAP based web services and associated standards such as WSDL. Design SOAP based / RESTful / WCF services Deal with Security and QoS issues of Web Services

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Web Services Elective-II USCS506 Unit 1	**Web services basics:** What Are Web Services? Types of Web Services Distributed computing infrastructure, overview of XML, SOAP, Building Web Services with JAX-WS, Registering and Discovering Web Services, Service Oriented Architecture, Web Services Development Life Cycle, Developing and consuming simple Web Services across platform	15	Web Services: Principles and Technology,Michael P. Papazoglou, Pearson Education Limited, 2008	Laptop,ppt

Web Services Elective-II USCS506 Unit 2	**The REST Architectural style:** Introducing HTTP, The core architectural elements of a RESTful system, Description and discovery of RESTful web services, Java tools and frameworks for building RESTful web services, JSON message format and tools and frameworks around JSON, Build RESTful web services with JAX-RS APIs, The Description and Discovery of RESTful Web Services, Design guidelines for building RESTful web services, Secure RESTful web services.	15	RESTful Java Web Services, Jobinesh Purushothaman, PACKT Publishing,2 nd Edition, 2015	Laptop,ppt
Web Services Elective-II USCS506 Unit 3	**Developing Service-Oriented Applications with WCF :** What Is Windows Communication Foundation, Fundamental Windows Communication Foundation Concepts, Windows Communication Foundation Architecture, WCF and .NET Framework Client Profile, Basic WCF Programming, WCF Feature Details. Web Service QoS	15	Developing Service-Oriented Applications with WCF, Microsoft, 2017 https://docs.microsoft.com/en-us/dotnet/framework/wcf/index	Laptop,ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **TYBSCCS** SEMESTER:**V**

MONTH: **JUNE-OCT** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

understand computer Graphics programming using Directx or Opengl. Along with the VR and AR they should also aware of GPU, newer technologies and programming using most important API for windows.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS507 **Game Programming** Unit-1	**Cartesian Coordinate system:** The Cartesian XY-plane, Function Graphs, Geometric Shapes, Polygonal Shapes, Areas of Shapes, Theorem of Pythagoras in 2D, Coordinates, Theorem of Pythagoras in 3D, 3D Polygons, Euler's Rule	04	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
	Vectors: Vector Manipulation, multiplying a Vector by a Scalar, Vector Addition and Subtraction, Position Vectors, Unit Vectors, Cartesian Vectors, Vector Multiplication, Scalar Product, Example of the Dot Product, The Dot Product in Lighting Calculations, The Dot Product in Back-Face Detection, The	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard

	Vector Product, The Right-Hand Rule, deriving			

	a Unit Normal Vector for a Triangle Areas, Calculating 2D Areas			
	Transformations: 2D Transformations, Matrices, Homogeneous Coordinates, 3D Transformations, Change of Axes, Direction Cosines, rotating a Point about an Arbitrary Axis, Transforming Vectors, Determinants, Perspective Projection, Interpolation	06	Computer Graphics, C Version, Donald Hern and Pauline Baker, Pearson Education, 2nd Edition, 1997	Laptop,power point,blackboard
	DirectX: Understanding GPU and GPU architectures. How they are different from CPU Architectures? Understanding how to solve by GPU?	02	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard
USCS507 **Game Programming** Unit-2	**Introduction To DirectX 11:** COM, Textures and Resources Formats, The swap chain and Page flipping, Depth Buffering, Texture Resource Views, Multisampling Theory and MS in Direct3D, Feature Levels	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard
	Direct3D 11 Rendering Pipeline: Overview, Input Assembler Stage (IA), Vertex Shader Stage (VS), The Tessellation Stage (TS), Geometry Shader Stage (GS), Pixel Shader Stage (PS), Output merger Stage (OM) Understanding Meshes or Objects, Texturing, Lighting, Blending.	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard

	Trigonometry: The Trigonometric Ratios, Inverse Trigonometric Ratios, Trigonometric Relationships, The Sine Rule, The Cosine	03	Introduction To 3D Game Programming With Directx® 11	Laptop,power point,blackboard

	Rule, Compound Angles, Perimeter Relationships			
	Interpolation: Linear Interpolant, Non-Linear Interpolation, Trigonometric Interpolation, Cubic Interpolation, Interpolating Vectors, Interpolating Quaternions	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
	Curves: Circle, Bezier, B-Splines **Analytic Geometry:** Review of Geometry, 2D Analytic Geometry, Intersection Points, Point in Triangle, and Intersection of circle with straight line.	03	Mathematics for Computer Graphics, John Vince, Springer-Verlag London, 5th Edition,2017	Laptop,power point,blackboard
USCS507 **Game Programming** Unit-3	**Introduction to Rendering Engines:** Understanding the current market Rendering Engines. Understanding AR, VR and MR.Depth Mappers, Mobile Phones, Smart Glasses, HMD's **Unity Engine: Multi-platform publishing, VR + AR:** Introduction and working in Unity, 2D, Graphics, Physics, Scripting, Animation, Timeline, Multiplayer and Networking, UI, Navigation and Pathfinding, XR, Publishing.	10	https://docs.unity3d.com/Manual/index.html	Laptop,power point,blackboard
	Scripting: Scripting Overview, Scripting Tools and Event Overview **XR:** VR, AR, MR, Conceptual Differences. SDK, Devices	05	https://docs.unity3d.com/Manual/index.html	Laptop,power point,blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **T.Y.B.Sc.(CS)**

SEMESTER: **V** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To get a clear understanding of AI and different search algorithms used for solving problems.
- To get acquainted with different learning algorithms and models used in machine learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT I**	**What Is AI:** Foundations, History and State of the Art of AI.	4	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Intelligent Agents: Agents and Environments, Nature of Environments, Structure of Agents.	3		
	Problem Solving by searching: Problem-Solving Agents, Example Problems, Searching for Solutions, Uninformed Search Strategies.	4		
	Informed (Heuristic) Search Strategies, Heuristic Functions.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT II**	**Learning from Examples:** Forms of Learning, Supervised Learning, Learning Decision Trees	3	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Evaluating and Choosing the Best Hypothesis, Theory of Learning	3		
	Regression and Classification with Linear Models ,Artificial Neural Networks	4		
	Nonparametric Models, Support Vector Machines, Ensemble Learning, Practical Machine Learning	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS501 **Paper I** **Artificial Intelligence** **UNIT III**	**Learning probabilistic models:** Statistical Learning, Learning with Complete Data.	4	Artificial Intelligence: A Modern Approach, Stuart Russell and Peter Norvig,3rd Edition.	Microsoft PowerPoint Presentation
	Learning with Hidden Variables: The EM Algorithm	3		
	Reinforcement learning: Passive Reinforcement Learning, Active Reinforcement Learning,	4		
	Generalization in Reinforcement Learning, Policy Search, Applications of Reinforcement Learning.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anuja Narottam Patil. **Design & Analysis of Algorithms DEPARTMENT: Information Technology.**

CLASS: F.Y.B.Sc.(CS) **SEMESTER: II** **MONTH: Dec to April** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

• To make students understand the basic principles of algorithm design

• To give idea to students about the theoretical background of the basic data structures

• To familiarize the students with fundamental problem-solving strategies like searching, sorting, selection, recursion and help them to evaluate efficiencies of various algorithms.

• To teach students the important algorithm design paradigms and how they can be used to solve various real world problems.

The learners will be able to :

• Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
• Students should be able to appreciate the use of various data structures as per need
• To select, decide and apply appropriate design principle by understanding the requirements of any real life problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS201 **Design & Analysis of Algorithms** **UNIT-2**	Recursion - What is recursion, Recursion vs Iteration, recursion applications like Factorial of a number, Fibonacci series & their comparative analysis with respect to iterative version, Tower of Hanoi problem Basic Sorting Techniques - Bubble, Selection and Insertion Sort & their comparative analysis Searching Techniques - Linear Search and its types, Binary Search and their comparative analysis Selection Techniques - Selection by Sorting, Partition-	15	1. “Data Structure and Algorithm Using Python”, Rance D. Necaise, Wiley India Edition, 2016. 2. “Data Structures and Algorithms Made Easy”,	Black Board, Projector, Google Meet PPT

	based Selection Algorithm, Finding the Kth Smallest Elements in Sorted Order & their comparative analysis String Algorithms - Pattern matching in strings, Brute Force Method & their comparative analysis		NarasimhaKarumanchi, CareerMonk Publications, 2016. 3. “Introduction to Algorithms”, Thomas H. Cormen, 3rd Edition, PHI.	
USCS201 **Design & Analysis of Algorithms** **UNIT-3**	Algorithm Design Techniques - Introduction to various types of classifications/design criteria and design techniques Greedy Technique - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - file merging problem Divide-n-Conquer - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - merge sort, Strassen's Matrix Multiplication Dynamic Programming - Concept, Advantages & Disadvantages, Applications, Implementation using problems like - Fibonacci series, Factorial of a number, Longest Common subsequence Backtracking Programming - Concept, Advantages & Disadvantages, Applications, Implementation using problems like N-Queen Problem	15	1. “Data Structure and Algorithm Using Python”, Rance D. Necaise, Wiley India Edition, 2016. 2. “Data Structures and Algorithms Made Easy”, NarasimhaKarumanchi, CareerMonk Publications, 2016. 3. “Introduction to Algorithms”, Thomas H. Cormen, 3rd Edition, PHI.	Black Board, Projector, Google Meet PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-Ms.SONALI DATTATRAY SALVANIKAR DEPARTMENT: CS
CLASS:FYCS-A SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVES:

- After successful completion of this course, To appreciate the importance of database design.
- Analyze database requirements and determine the entities involved in the system and their relationship to one another.
- Write simple queries to MySQL related to String, Maths and Date Functions.
- Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- Understand the normalization and its role in the database design process.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Systems (USCS204)	**Introduction to DBMS** – Database, DBMS – Definition, Overview of DBMS, Advantages of DBMS, Levels of abstraction, Data independence, DBMS Architecture	2	1.“Fundamentals of Database System”, Elmasri Ramez, Navathe Shamkant, Pearson Education,	PPT , Projector, Google Meet Blackboard & Chalk
	Data models - Client/Server Architecture, Object Based Logical Model, Record Based Logical Model (relational, hierarchical, network)	2		

UNIT I	**Entity Relationship Model -** Entities, attributes, entity sets, relations, relationship sets, Additional constraints (key constraints, participation constraints, weak entities, aggregation / generalization, Conceptual	3	Seventh edition, 2017	Black board and chalk.

	Design using ER (entities VS attributes, Entity Vs relationship, binary Vs ternary, constraints beyond ER)		2 “Database Management Systems”, Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	
	ER to Table- Entity to Table, Relationship to tables with and without key constraints.	2		
	DDL Statements - Creating Databases, Using Databases, datatypes, Creating Tables (with integrity constraints – primary key, default, check, not null), Altering Tables, Renaming Tables, Dropping Tables, Truncating Tables	3		
	DML Statements – Viewing the structure of a table insert, update, delete, Select all columns, specific columns, unique records, conditional select, in clause, between clause, limit, aggregate functions (count, min, max, avg, sum), group by clause, having clause.	3	3. “Murach's MySQL”, Joel Murach, 3rd Edition, 3rd Edition, 2019	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-VRUNDA VISHAL GHARAT DEPARTMENT: CS

CLASS:FYCS SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- After successful completion of this course, students would be able to Work with numeric, character and textual data and arrays.
- Understand the importance of OOP approach over procedural language.
- Understand how to model classes and relationships using UML.
- Apply the concepts of OOPS like encapsulation, inheritance and polymorphism.
- Handle basic file operations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Introduction to OOPs using C++ (USCS203) UNIT I	**Introduction to Programming Concepts**: Object oriented programming paradigm, basic concepts of object oriented programming, benefits of object oriented programming, object oriented languages, applications of object oriented programming. Tokens-keywords, identifiers, constants-integer, real, character and string constants, backslash constants, features of C++ and its basic structure, simple C++ program without class, compiling and running C++program. **Data Types, Data Input Output and Operators:** Basic data types, variables, rules for naming variables, programming constants, the type cast operator, implicit and explicit type casting, cout and cin statements, operators, precedence of operators. **Decision Making, Loops, Arrays and Strings:** Conditional statements-if, if...else, switch loops- while, do...while, for, types of arrays and string and string manipulations	15	Object Oriented Programming with C++, Balagurusamy E., 8th Edition, McGraw Hill Education India. 2. UML & C++: A Practical Guide to Object Oriented Development, Lee/Tepfenhart, Pearson Education, 2nd Edition201	Black board and chalk

	Unified Modeling Language (UML): Introduction to UML & class diagrams**.** **Classes, Abstraction & Encapsulation**: Classes and objects, Dot Operator, data members, member functions, passing data to functions, scope and visibility of variables in function.			

Introduction to OOPs using C++ (USCS203) UNIT II	**Constructors and Destructors**: Default constructor, parameterized constructor, copy constructor, private constructor, destructors. **Working with objects**: Accessor - mutator methods, static data and static function, access specifiers, array of objects**.** **Polymorphism** - Binding-static binding & overloading, constructor overloading function overloading, operator overloading, overloading unary and binary operators. **Modelling Relationships in Class Diagrams:** Association, AggregationComposition and examples covering these principle	15	Object Oriented Programming with C++, Balagurusamy E., 8th Edition, McGraw Hill Education India	Black board and chalk
Introduction to OOPs using C++ (USCS203) UNIT III	**Inheritance**: Defining base class and its derived class, access specifiers, types of inheritance-single, multiple, hierarchical, multilevel, hybrid inheritance, friend function and friend class, constructors in derived classes**.** **Modelling Relationships**: Generalization-Specialization and examples covering these principles Run time Polymorphism - Dynamic Binding, Function overriding, virtual function, pure virtual function, virtual base class, abstract class**.** **Pointers**: Introduction to pointers, * and & operators, assigning addresses to pointer variables, accessing values using pointers, pointers to objects & this pointer, pointers to derived classes **File Handling:** File Stream classes, opening and closing file-file opening modes, text file handling, binary file handling**.**	15	UML & C++: A Practical Guide to Object Oriented Development, Lee/Tepfenhart, Pearson Education, 2nd Edition201	Black board and chalk

	Applying OOP to solve real life applications: To cover case studies like library management, order management etc. to design classes covering all relationships			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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Waman Thakur College of Science Yashvant
Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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EACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS
CLASS: FYCS SEMESTER: II MONTH: JANUARY TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand and evaluate efficiency of the programs that they write based on performance of the algorithms used.
- Students should be able to appreciate the use of various data structures as per need.
- To select, decide and apply appropriate design principle by understanding the requirements of any real-life problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD
Design & Analysis of Algorithms (USCS201) Unit I	**Introduction to algorithms** - What is algorithm, analysis of algorithm, Types of complexity, Running time analysis, How to Compare Algorithms, Rate of Growth, Types of Analysis, Asymptotic Notation, Big-O Notation, Omega-Ω Notation, Theta-Θ Notation, Asymptotic Analysis, Performance characteristics of algorithms, Estimating running time / number of steps of executions on paper, Idea of Computability	08	Data Structure and algorithm Using Python, Rance D. Necaise, 2016 Wiley India Edition	PPT, Chalk and board
	Introduction to Data Structures - What is data structure, types, Introduction to Array(1-d & 2-d), Stack and List data structures, operations on these data structures, advantages disadvantages and applications of these data structures like solving linear equations, Polynomial Representation, Infix-to-Postfix conversion	07		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Vidhya Dayanand Patil College of Arts VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 2 2022-23

lTEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 2

MONTH: February to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- Calculate probability, conditional probability and independence.
- Apply the given discrete and continuous distributions whenever necessary.
- Define null hypothesis, alternative hypothesis, level of significance, test statistic and pvalue.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- Apply non-parametric test whenever necessary.
- Conduct and interpret one-way and two-way ANOVA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **<u>Unit 1</u>**	**Probability:** ➢ Random experiment, sample space, events types and ➢ operations of events, Probability definition: classical, axiomatic, ➢ Elementary Theorems of probability (without proof). ➢ Conditional probability, „Bayes" theorem, independence, Examples on Probability.	**8**	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Sons, New Delhi	

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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	Random Variables: ➢ Concept and definition of a discrete random variable and continuous random variable. ➢ Probability mass function, Probability density function and cumulative distribution function of discrete and continuous random variable, ➢ Properties of cumulative distribution function.	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

Unit 2	**Mathematical Expectation and Variance:** ➢ Expectation of a function,Variance and S.D of a random variable, ➢ properties.	6	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

SIGNATURE OF THE STAFF SIGNATURE OF THE H.O.D.

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	Standard Probability distributions: ➢ Introduction,properties, ➢ Examples and applications of each of the following distributions: Binomial distribution,Normal distribution,Chi-square distribution, t distribution, F distribution	9	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

Unit 3	**Hypothesis testing:** ➢ One sided,Two sided hypothesis, critical region, p-value, ➢ tests based on t, Normal and F, confidence intervals**.**	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

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	Analysis of Variance: One-way, two-way analysis of variance. .	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster
	Non-parametric tests: ➢ Need of non-parametric tests, ➢ Sign test,Wilicoxon's signed rank test, run test, Kruskal-Walistests, Chisquare test	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand concept of derivation and application how to apply.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT I DERIVATIVES AND ITS APPLICATIONS	DERIVATIVES AND ITS APPLICATIONS: Review of Basic Concepts: Functions, limit of a function, continuity of a function, derivative function.	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Derivative In Graphing And Applications: Increase, Decrease, Concavity, Relative Extreme; Graphing Polynomials	5		
	Rational Functions, Cusps and Vertical Tangents. Absolute Maxima and Minima	4		
	Applied Maximum and Minimum Problems, Newton's Method.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the application of integration and how to implement in different field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205, UNIT II INTEGRATION AND ITS APPLICATIONS	INTEGRATION AND ITS APPLICATIONS: Integration: An Overview of the Area Problem, Indefinite Integral	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Definition of Area as a Limit; Sigma Notation, Definite Integral, Evaluating	3		
	Definite Integrals by Substitution, Numerical Integration: Simpson's Rule.	3		
	Applications of Integration: Area between two curves, Length of a plane curve.	3		
	Mathematical Modeling with Differential Equations: Modeling with Differential Equations, Separation of Variables, Slope Fields, Euler's Method, First-Order Differential Equations and Applications.)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT III PARTIAL DERIVATIVES AND ITSAPPLICATIONS:	Functions of Several Variables: Functions of two or more variables, Limits and Continuity of functions of two or three variables	4	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Partial Derivatives: Partial Derivatives, Differentiability, Differentials, and Local Linearity, Chain Rule	3		
	Implicit Differentiation, Directional Derivatives and Gradients	4		
	Applications of Partial Derivatives: Tangent Planes and Normal Vectors, Maxima and Minima of Functions of Two Variables.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: COMPUTER SCIENCE CLASS: FYCS

SEMESTER: II MONTH: FEB-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand how to read/write to files using python.
- Catch their own errors that happen during execution of programs.
- Get introductions to the concept of pattern matching.
- Be familiar with the concepts of GUI controls and designing GUI applications.
- Connect to the database to move the data to/from the application.
- Know how to connect to computers, read from URL and send email.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS202, Unit 1, Advanced Python Programming	Working with files: Files, opening and closing a file, working with text files containing strings, knowing whether a file exists or not, working with binary files, the „with" statement, the seek() and tell() methods, random accessing of binary files, zipping and unzipping files, working with directories, running other programs from python program	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Regular expressions: What is a regular expression?, sequence characters in regular expressions, quantifiers in regular expressions, special characters in regular expressions, using regular expression on files, retrieving information from an html file, Threads in python: Difference between process and thread,	05	Paul Gries, Programming: An Introduction to Computer Science Using	PowerPoint Presentation

	types of threads, benefits of threads, creating threads, single		Python 3	

	tasking and multitasking, thread synchronization, deadlock in threads, daemon threads			
	Date and time in python: Date and time now, combining date and time, 15 Page 33 of 50 formatting dates and times, finding durations using "time delta", comparing two dates, sorting dates, stopping execution temporarily, knowing the time taken by a program, calendar module	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
USCS202, Unit 2, Advanced Python Programming	Database in python: Using SQL with python, retrieving rows from a table, inserting rows into a table, deleting rows from a table, updating rows in a table, creating database tables through python, Exception handling in databases.	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Exceptions in python: Errors in a python program, compile & run-time errors, logical error, exceptions-exception handling, types of exceptions, the except block, the assert statement, user-defined exceptions, logging the exceptions Networking: Protocols,server-client architecture, tcp/ip and udp communication	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Graphical user interface: Creating a GUI in python, Widget classes, Working with Fonts and Colours, working with Frames, Layout manager, Event handling	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation

USCS202, Unit 3, Advanced	OOPs in python: Features of Object Oriented Programming system (oops)- classes and objects, encapsulation, abstraction, inheritance, polymorphism, constructors and destructors Classes	05	Paul Gries, Programming: An Introduction	PowerPoint Presentation

Python Programming	and objects: Creating a class, the self-variable, types of variables, namespaces, types of methods, instance methods, class methods, static methods, passing members of one class to another class, inner classes		to Computer Science Using Python 3	
	Inheritance and polymorphism: Inheritance in python, types of inheritance- single inheritance, multilevel inheritance, hierarchical inheritance, multiple inheritance, constructors in inheritance, overriding super class constructors and methods, the super() method, method resolution order (mro), polymorphism, duck typing, operator overloading, method overloading, method overriding,	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation
	Abstract classes and interfaces: Abstract class, abstract method,interfaces in python, abstract classes vs. Interfaces	05	Paul Gries, Programming: An Introduction to Computer Science Using Python 3	PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RUTUJA PRASHANT GUPTA DEPARTMENT: CS
CLASS: FYCS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To learn how to design object-oriented programs with Python classes
- To learn about reading, writing and implementing other operation on files in Python.
- To implement threading concept and multithreading on Python.
- To design GUI Programs and implement database interaction using Python.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Python Programming (USCS202) Unit I	**Working with files:** Files, opening and closing a file, working with textfiles containing strings, knowing whether a file exists or not, working with binary files, the „with" statement, the seek() and tell() methods, random accessing of binary files, zipping and unzipping files, working with directories, running other programs from python program	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018	Black board and chalk
	Regular expressions: What is a regular expression?, sequence characters in regular expressions, quantifiers in regular expressions, special characters in regular expressions, using regular expression on files, retrieving information from an html file,	04		
	Threads in python: Difference between process and thread, types of threads, benefits of threads, creating threads, single tasking and multitasking, thread synchronization, deadlock in threads, daemon threads	04		

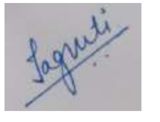
	Date and time in python: Date and time now, combining date and time formatting dates and times, finding durations using "time delta", comparing two dates, sorting dates, stopping execution	03		

	temporarily, knowing the time taken by a program, calendar module			

Advanced Python Programming (USCS202) Unit II	**Database in python:** Using SQL with python, retrieving rows from a table, inserting rows into a table, deleting rows from a table, updating rows in a table, creating database tables through python, Exception handling in databases.	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018 ,	Black board and chalk
	Exceptions in python: Errors in a python program, compile & run-time errors, logical error, exceptions-exception handling, types of exceptions, the except block, the assert statement, user-defined exceptions, logging the exceptions	04		
	Networking: Protocols,server-client architecture, tcp/ip and udp communication	03		
	Graphical user interface: Creating a GUI in python, Widget classes, Working with Fonts and Colours, working with Frames, Layout manager, Event handling	04		
Advanced Python Programming (USCS202) Unit III	**OOPs in python:** Features of Object Oriented Programming system (oops)- classes and objects, encapsulation, abstraction, inheritance, polymorphism, constructors and destructors	04	Paul Gries , Jennifer Campbell, Jason Montojo, 3rd Edition, 2018	Black board and chalk
	Classes and objects: Creating a class, the self-variable, types of variables,namespaces, types of methods, instance methods, class methods, static methods, passing members of one class to another class, inner classes	04		
	Inheritance and polymorphism: Inheritance in python, types of inheritance- single inheritance, multilevel inheritance, hierarchical inheritance, multiple inheritance, constructors in inheritance, overriding super class constructors and methods, the super() method, method resolution order (mro), polymorphism, duck typing, operator overloading, method overloading, method overriding**,**	04		

	Abstract classes and interfaces: Abstract class, abstract method, interfaces in python, abstract classes vs. Interfaces	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF-Ms.JUILEE KIRAN PATIL. DEPARTMENT: CS
CLASS:FYCS - B SEMESTER: II MONTH: December to April ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVES:

- After successful completion of this course, To appreciate the importance of database design.
- Analyze database requirements and determine the entities involved in the system and their relationship to one another.
- Write simple queries to MySQL related to String, Maths and Date Functions.
- Create tables and insert/update/delete data, and query data in a relational DBMS using MySQL commands.
- Understand the normalization and its role in the database design process.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Database Systems (USCS204) UNIT I	**Introduction to DBMS** – Database, DBMS – Definition, Overview of DBMS, Advantages of DBMS, Levels of abstraction, Data independence, DBMS Architecture **Data models** - Client/Server Architecture, Object Based Logical Model, Record Based Logical Model (relational, hierarchical, network) **Entity Relationship Model** - Entities, attributes, entity sets, relations, relationship sets, Additional constraints (key constraints, participation constraints, weak entities, aggregation / generalization, Conceptual Design using ER (entities VS attributes, Entity Vs relationship, binary Vs ternary, constraints beyond ER) **ER to Table**- Entity to Table, Relationship to tables with and without key constraints. **DDL Statements** - Creating Databases, Using Databases, datatypes, Creating Tables (with integrity constraints – primary	15	1.“Fundamentals of Database System”, Elmasri Ramez, Navathe Shamkant, Pearson Education, Seventh edition, 2017 2 “Database Management Systems”, Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	Black board and chalk.

	key, default, check, not null), Altering Tables, Renaming Tables, Dropping Tables, Truncating Tables **DML Statements** – Viewing the structure of a table insert, update, delete, Select all columns, specific columns, unique records, conditional select, in clause, between clause, limit, aggregate functions (count, min, max, avg, sum), group by clause, having clause.		3. “Murach's MySQL”, Joel Murach, 3rd Edition, 3rd Edition, 2019	

Database Systems (USCS204) UNIT II	**Relational data model**– Domains, attributes, Tuples and Relations, Relational Model Notation, Characteristics of Relations, Relational Constraints - primary key, referential integrity, unique constraint, Null constraint, Check constraint **Relational Algebra** operations (selection, projection, set operations union, intersection, difference, cross product, Joins – conditional, equi join and natural joins, division) **Functions** – String Functions (concat, instr, left, right, mid, length, lcase/lower, ucase/upper, replace, strcmp, trim, ltrim, rtrim), Math Functions (abs, ceil, floor, mod, pow, sqrt, round, truncate) Date Functions (adddate, datediff, day, month, year, hour, min, sec, now, reverse) **Joining Tables** – inner join, outer join (left outer, right outer, full outer) **Subqueries** – subqueries with IN, EXISTS, subqueries restrictions, Nested subqueries, ANY/ALL clause, correlated subqueries.	15	1.“Fundamentals of Database System”, Elmasri Ramez, Navathe Shamkant, Pearson Education, Seventh edition, 2017	Black board and chalk
Database Systems (USCS204) UNIT III	**Schema refinement and Normal forms**: Functional dependencies, first, second, third, and BCNF normal forms based on primary keys, lossless join decomposition.	15	2 “Database Management Systems”, Raghu Ramakrishnan and Johannes Gehrke, 3rd Edition, 2014	Black board and chalk

	Database Protection: Security Issues, Threats to Databases, Security Mechanisms, Role of DBA, Discretionary Access Control, Backing Up and Restoring databases **Views** (creating, altering dropping, renaming and manipulating views) **DCL Statements** (creating/dropping users, privileges introduction, granting/revoking privileges, viewing privileges), Transaction control commands – Commit, Rollback **Index Structures of Files**: Introduction, Primary index, Clustering Index, Multilevel indexes.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15

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Yashvant Keshav Patil College of Commerce
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VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SONALI DATTATRAY SALVANIKAR DEPARTMENT: CS
CLASS:FYCS SEMESTER: SEM-II MONTH: DECEMBER-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The course aims to introduce a new programming paradigm called Object Oriented Programming. This will be covered using C++ programming language. C++ is a versatile programming language, which supports a variety of programming styles, including procedural, object-oriented, and functional programming. This makes C++ powerful as well as flexible. It can be used to develop software such as operating systems, databases, and compilers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3 Introduction to OOPs using C++, UNIT 1	**Introduction to Programming Concepts**: Object oriented programming paradigm, basic concepts of object oriented programming, benefits of object oriented programming, object oriented languages, applications of object oriented programming.	2	Object Oriented Programming with C++, Balagurusamy	PPT , Projector, Google Meet Blackboard & Chalk
	Tokens-keywords, identifiers, constants-integer, real, character and string constants, backslash constants, features of C++ and its basic structure, simple C++ program without class, compiling and running C++ program..	1		

	Data Types, Data Input Output and Operators: Basic data types, variables, rules for naming variables, programming constants, the type cast operator, implicit and explicit type casting, cout and cin statements ,operators, precedence of operators.	2		
	Decision Making, Loops, Arrays and Strings: Conditional statements-if, if...else, switch loops- while, do...while, for, types of arrays and string and string manipulations.	5		
	Unified Modeling Language (UML): Introduction to UML & class diagrams.	2		
	Classes, Abstraction & Encapsulation: Classes and objects, Dot Operator, data members, member functions, passing data to functions, scope and visibility of variables in function.	3		
UNIT-2	**Constructors and Destructors:** Default constructor, parameterized , constructor, copy constructor, private constructor, destructors.	3	Object Oriented Programming with C++, Balagurusamy , UML & C++:	PPT , Projector, Google Meet Blackboard & Chalk,
	Working with objects: Accessor - mutator methods, static data and static function, access specifiers, array of objects.	4		
	Polymorphism - Binding-static binding & overloading, constructor overloading function overloading, operator overloading, overloading unary and binary operators.	5		
	Modelling Relationships in Class Diagrams: Association, Aggregation- Composition and examples covering these principles.	3		

UNIT 3	**Inheritance:** Defining base class and its derived class, access specifiers, types of inheritance-single, multiple, hierarchical, multilevel, hybrid inheritance, friend function and friend class, constructors in derived classes**.**	4	Object Oriented Programming with C++, Balagurusamy, UML & C++	PPT, Projector, Google Meet Blackboard & Chalk.
	Modelling Relationships: Generalization-Specialization and examples covering these principles.	2		
	Run time Polymorphism - Dynamic Binding, Function overriding, virtual function, pure virtual function, virtual base class, abstract class.	2		
	Pointers: Introduction to pointers, * and & operators, assigning addresses to pointer variables, accessing values using pointers, pointers to objects &this pointer, pointers to derived classes	3		
	File Handling: File Stream classes, opening and closing file-file opening modes, text file handling, binary file handling.	2		
	Applying OOP to solve real life applications: To cover case studies like library management, order management etc. to design classes covering all relationships.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

Sonali

SIGNATURE OF THE STAFF

Jagruti

SIGNATURE OF THE H.O.D.

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Vidhya Dayanand Patil College of Arts
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Teaching plan for FYCS sem 2 2022-23

lTEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Computer Science

CLASS: Fybsc(CS)

SEMESTER: 2

MONTH: February to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- Calculate probability, conditional probability and independence.
- Apply the given discrete and continuous distributions whenever necessary.
- Define null hypothesis, alternative hypothesis, level of significance, test statistic and pvalue.
- Perform Test of Hypothesis as well as calculate confidence interval for a population parameter for single sample and two sample cases.
- Apply non-parametric test whenever necessary.
- Conduct and interpret one-way and two-way ANOVA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURE S ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **Unit 1**	**Probability:** ➢ Random experiment, sample space, events types and ➢ operations of events, Probability definition: classical, axiomatic, ➢ Elementary Theorems of probability (without proof). ➢ Conditional probability, „Bayes" theorem, independence, Examples on Probability.	**8**	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Sons, New Delhi	

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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	Random Variables: ➢ Concept and definition of a discrete random variable and continuous random variable. ➢ Probability mass function, Probability density function and cumulative distribution function of discrete and continuous random variable, ➢ Properties of cumulative distribution function.	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

Unit 2	**Mathematical Expectation and Variance:** ➢ Expectation of a function,Variance and S.D of a random variable, ➢ properties.	6	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

			Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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	Standard Probability distributions: ➢ Introduction,properties, ➢ Examples and applications of each of the following distributions: Binomial distribution,Normal distribution,Chi-square distribution, t distribution, F distribution	9	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

Unit 3	**Hypothesis testing:** ➢ One sided,Two sided hypothesis, critical region, p-value, ➢ tests based on t, Normal and F, confidence intervals.	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

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Teaching plan for FYCS sem 2 2022-23

	Analysis of Variance: One-way, two-way analysis of variance. .	4	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster
	Non-parametric tests: ➢ Need of non-parametric tests, ➢ Sign test,Wilicoxon’s signed rank test, run test, Kruskal-Walistests, Chisquare test	7	Gupta, S.C. and Kapoor, V.K. (1987): Fundamentals of Mathematical Statistics, S. Chand and Sons, New Delhi	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lecture

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand concept of derivation and application how to apply.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT I DERIVATIVES AND ITS APPLICATIONS	DERIVATIVES AND ITS APPLICATIONS: Review of Basic Concepts: Functions, limit of a function, continuity of a function, derivative function.	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Derivative In Graphing And Applications: Increase, Decrease, Concavity, Relative Extreme; Graphing Polynomials	5		
	Rational Functions, Cusps and Vertical Tangents. Absolute Maxima and Minima	4		
	Applied Maximum and Minimum Problems, Newton’s Method.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the application of integration and how to implement in different field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205, UNIT II INTEGRATION AND ITS APPLICATIONS	INTEGRATION AND ITS APPLICATIONS: Integration: An Overview of the Area Problem, Indefinite Integral	3	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Definition of Area as a Limit; Sigma Notation, Definite Integral, Evaluating	3		
	Definite Integrals by Substitution, Numerical Integration: Simpson's Rule.	3		
	Applications of Integration: Area between two curves, Length of a plane curve.	3		
	Mathematical Modeling with Differential Equations: Modeling with Differential Equations, Separation of Variables, Slope Fields, Euler's Method, First-Order Differential Equations and Applications.)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: FYB.Sc (CS) SEMESTER: II MONTH: JANUARY- MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:USCS205 UNIT III PARTIAL DERIVATIVES AND ITSAPPLICATIONS:	Functions of Several Variables: Functions of two or more variables, Limits and Continuity of functions of two or three variables	4	Calculus and analytic geometry (9th edition) By George B Thomas, Ross L Finney, Addison Wesley	Blackboard, Duster and Chalk
	Partial Derivatives: Partial Derivatives, Differentiability, Differentials, and Local Linearity, Chain Rule	3		
	Implicit Differentiation, Directional Derivatives and Gradients	4		
	Applications of Partial Derivatives: Tangent Planes and Normal Vectors, Maxima and Minima of Functions of Two Variables.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande — DEPARTMENT: Computer Science

CLASS: S.Y.C.S. — SEMESTER: IV

MONTH: Dec - March — ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

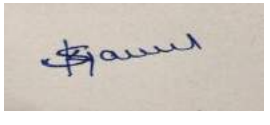
Learner will able to understand the concept of networking.
Useful to proceed with industrial requirement and international vendor certification

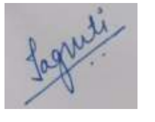
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS403 Computer Networks UNIT - 1	Introduction to data communication, Components, Data Representation, Data Flow, Networks, Network Criteria, Physical Structures, Network types, Local Area Network, Wide Area Network, Switching, The Internet, Accessing the Internet, standards and administration Internet Standards.	02	Data Communication and Networking , Behrouz Forouzan	PPT
	Network Models, Protocol layering, Scenarios, Principles of Protocol Layering, Logical Connections, TCP/IP Protocol Suite, Layered Architecture, Layers in the TCP/IP Protocol Suite, Encapsulation and Decapsulation, Addressing, Multiplexing and Demultiplexing. Detailed introduction to Physical Layer, Detailed	08		PPT

	introduction to Data-Link Layer, Detailed introduction to Network Layer, Detailed introduction to Transport Layer, Detailed introduction to Application Layer.			
	Data and Signals, Analog and Digital Data, Analog and Digital Signals, Sine Wave Phase, Wavelength, Time and Frequency Domains, Composite Signals, Bandwidth, Digital Signal, Bit Rate, Bit Length, Transmission of Digital Signals, Transmission Impairments, Attenuation, Distortion, Noise, Data Rate Limits, Performance, Bandwidth, Throughput, Latency (Delay)	05		PPT
USCS403 Computer Networks UNIT - 2	Digital Transmission digital-to-digital conversion, Line Coding, Line Coding Schemes, analog-to-digital conversion, Pulse Code Modulation (PCM), Transmission Modes, Parallel Transmission, Serial Transmission. Analog Transmission, digital-to-analog Conversion, Aspects of Digital-to-Analog Conversion, Amplitude Shift Keying, Frequency Shift Keying, Phase Shift Keying, analog-to-analog Conversion, Amplitude Modulation (AM), Frequency Modulation (FM), Phase Modulation (PM), Multiplexing, Frequency-Division Multiplexing, Wavelength-Division Multiplexing, Time-Division Multiplexing. Transmission Media, Guided Media, Twisted-Pair Cable, Coaxial Cable, Fiber-Optic Cable. Switching, Three Methods of Switching , Circuit Switched Networks, Packet Switching,	09	Data Communication and Networking , Behrouz Forouzan	PPT
	Introduction to Data-Link Layer, Nodes and Links, Services, Two Sub-layers, Three Types of addresses, Address Resolution Protocol (ARP). Error Detection and Correction, introduction, Types of Errors, Redundancy, Detection versus Correction,	06		PPT

USCS403 Computer Networks UNIT - 3	Media Access Control (MAC), random access, CSMA, CSMA/CD, CSMA/CA, controlled access, Reservation, Polling, Token Passing, channelization, FDMA, TDMA, CDMA.	02	Data Communication and Networking , Behrouz Forouzan	PPT
	Connecting Devices and Virtual LANs, connecting devices, Hubs, Link-Layer	02		
	Introduction to Network Layer, network layer services, Packetizing, Routing and Forwarding, Other Services, IPv4 addresses, Address Space, Classful Addressing.	03		
	Unicast Routing, General Idea, Least-Cost Routing, Routing Algorithms, Distance-Vector Routing, Link-State Routing, Path-Vector Routing, Introduction to Transport Layer, Transport-Layer Services, Connectionless and Connection-Oriented Protocols.	03		
	Transport-Layer Protocols, Service, Port Numbers, User Datagram Protocol, User Datagram, UDP Services, UDP Applications, Transmission Control Protocol, TCP Services, TCP Features, Segment.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: SYCS

SEMESTER: IV MONTH: Jan to March ACADEMIC YEAR:2022-2023

Course Objectives:

- To understand all the necessary and important technologies such as MongoDB, Express.js, AngularJS, and Node.js.
- To understand modern app development using Flutter

Learning Outcomes:

- Store the data in NoSQL, document-oriented MongoDB database that brings performance and scalability.
- Use Node.js and Express Framework for building fast, scalable network applications
- Use AngularJS framework that offers declarative, two-way data binding for web applications.
- Integrate the front-end and back-end components of the MEAN stack. · Develop robust mobile applications using Flutter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Application Development USCS406 Unit 1	**Node.js (N):** Introduction to Node.js. Installing Node.js. The package.json File. The Node.js Event Loop. The I/O Cycle. The Anatomy of a Node.js Module. Creating Node Modules. Exploring the Node.js HTTP Module. Creating an HTTP Webserver with Node.js. Responding to HTTP Requests. Routing in Node.js. Creating a Sample Node.js Application. **MongoDB(M):** Introduction to MongoDB. Installing MongoDB. Using MongoDB Compass. Using Mongo Shell Interface. Connecting to MongoDB. Creating Schemas and Models. Querying	15	Node.js, MongoDB and Angular Web Development: The definitive guide to using the MEAN stack to build web applications by Brad Dayley, Brendan Dayley, Caleb Dayley, Pearson, 2018.	Projector, PPT, Black board & Chalk

	Documents Using find(). Inserting Documents Using create(). Updating Documents Using findOneAndUpdate(). Deleting Documents Using findOneAndDelete() & deleteMany()		And Internet	

Advanced Application Development USCS406 Unit 2	**Server-Side Development with Express (E):** Introduction to the Express Framework. Installing and Testing Express. Creating a Node.js Express App. Restructuring an Express App. Creating Templates. Using Express Middleware Functions. Creating the List Page. Creating the Details Page. Creating the Edit Page. Creating the Add Page. Deleting Data. REST API Basics. Testing REST APIs. Refactoring APIs. **Understanding Angular.JS(A):** Getting Started with Angular. Creating an Angular Application. Angular Project File Structure. Anatomy of an Angular Component. One-way Data Binding. Two-way Data Binding. Using NgIf Directive. Using NgForOf Directive. Angular Modules. Creating NgModules Using Angular Router. Configuring Templates. Creating Navigations. Working with Template-driven Forms. Working with Reactive Forms. Validating Form Data. Services Dependency Injection (DI). Reading Data from Database. Inserting Data into Database. Updating Data in the Database. Delete Data from Database.	15	Full Stack Javascript Development with Mean - MongoDB, Express, AngularJS, and Node.JS by Adam Bretz, Colin J Ihrig, Shroff/SitePoint, 2015 And Internet	Projector, PPT, Black board & Chalk
Advanced Application Development USCS406 Unit 3	**Understanding Flutter:** Importance of Flutter, Flutter Framework, Android Studio, Flutter SDK, Installing and Configuring Flutter SDK. **Dart Programming**: main() function, Dart Variables, Dart Data Types, Dart Conditional Operators, Control Flow & Loops. Dart Functions - Functions, Function Structure, creating a Function, Function Returning Expression. Object-Oriented Programming (OOP) - Creating a Class, Adding Methods to Classes, Class — Getters and Setters, Class Inheritance, Abstract Class. **Flutter Widgets Fundamentals**: Scaffold Widget, Image Widget, Container Widget, Column and Row Widgets, Icon Widget, Layouts in Flutter, Card Widget, Hot Reload and Hot Restart, Stateful and	15	Beginning Flutter: A Hands On Guide to App Development by Marco L. Napoli, Wrox, 2019 And Internet	Projector, PPT, Black board & Chalk

	Stateless Widgets **Navigation and Routing:** Button Widget, App Structure and Navigation, Navigate to a New Screen and Back, Navigate with Named Routes, Send and Return Data among Screens, Animate a Widget across Screens, WebView Widget in Flutter			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYCS

SEMESTER: SEM-4 MONTH: NOV-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Plan a software engineering process life cycle, including the specification, design, implementation, and testing of software systems that meet specification, performance, maintenance and quality requirements
- Analyze and translate a specification into a design, and then realize that design practically, using an appropriate software engineering methodology.
- Know how to develop the code from the design and effectively apply relevant standards and perform testing, and quality management and practice
- Able to use modern engineering tools necessary for software project management, time management and software reuse..

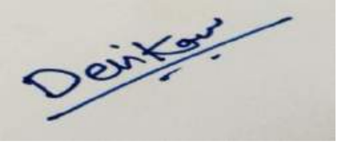
PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 3 SOFTWARE ENGINEERING UNIT 1	**Introduction:** The Nature of Software, Software Engineering, Professional Software Development, Layered Technology, Process framework, CMM	2	SOFTWARE ENGINEERING , A PRACTITIONER'S APPROACH, ROGER S, PRESSMAN, 2019	BLACK BOARD AND CHALK
	Process Patterns and Assessment Prescriptive Models: Waterfall Model, Incremental, RAD Models	3		
	Evolutionary Process Models: Prototyping, Spiral and Concurrent Development Model Specialized Models: Component based, Aspect Oriented development	3		
	The Unified Process Phases, Agile Development- Agility, Agile Process, Extreme Programming	2		

	Requirement Analysis and System Modeling: Requirements Engineering, Eliciting Requirements, SRS Validation, Components of SRS, Characteristics of SRS,	2		
	the UML - Class diagram, Object diagram, Use case diagram, Sequence diagram, Collaboration diagram, State chart diagram, Activity diagram, Component diagram, Deployment diagram	3		
PAPER 3 SOFTWARE ENGINEERING UNIT 2	**System Design:** System/Software Design, Architectural Design, LowLevel Design Coupling and Cohesion, Functional-Oriented Versus ObjectOriented Approach, Design Specifications, Verification for Design, Monitoring and Control for Design	3	SOFTWARE ENGINEERING , A PRACTITIONE R'S APPROACH, ROGER S, PRESSMAN, 2019	
	Software Measurement and Metrics: Process Metrics and Project Metrics, Software Measurement, Object Oriented Metrics, Software Project Estimation, Decomposition Techniques, LOC based, FP based and Use case based estimations, Empirical estimation Models	3		
	Software Project Management: Estimation in Project Planning Process –Software Scope and Feasibility, Resource Estimation, Empirical Estimation Models – COCOMO II, Estimation for Agile Development, The Make/Buy Decision	3		
	Project Scheduling - Basic Principles, Relationship Between People and Effort, Effort Distribution, Time-Line Charts	2		
PAPER 3 SOFTWARE	**Risk Management** - Risk strategies, Software risks, Risk Identification, projection, RMMM Quality Concepts	2	SOFTWARE ENGINEERING	

ENGINEERING UNIT 3	**Software Quality Assurance SQA** activities, Software reviews, FTR, Software reliability and measures, SQA plan Software Configuration Management, elements of SCM, SCM Process, Change Control Capability Maturity Model	3	, A PRACTITIONER'S APPROACH,	

	Software Testing : Verification and Validation, Introduction to Testing, Testing Principles, Testing Objectives, Test Oracles, Levels of Testing, White-Box Testing/Structural Testing, Functional/Black-Box Testing, Test Plan, Test-Case Design	3	ROGER S, PRESSMAN, 2019	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 34



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(CS)**

SEMESTER: **IV** MONTH: **November - February** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

1. Understand Grammar and Languages.
2. Learn about Automata theory and its application in Language Design.
3. Learn about Turing Machines and Pushdown Automata.
4. Understand Linear Bound Automata and its applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT I**	**Automata Theory:** Defining Automaton, Finite Automaton, Transitions and Its properties, Acceptability by Finite Automaton	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Nondeterministic Finite State Machines, DFA and NDFA equivalence, Mealy and Moore Machines, Minimizing Automata.	4		
	Formal Languages: Defining Grammar, Derivations, Languges generated by Grammar	3		
	Chomsky Classification of Grammar and Languages, Recursive Enumerable Sets, Operations on Languages, Languages and Automata	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT II**	**Regular Sets and Regular Grammar:** Regular Grammar, Regular Expressions, Finite automata and Regular Expressions	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Pumping Lemma and its Applications, Closure Properties, Regular Sets and Regular Grammar	4		
	Context Free Languages: Context-free Languages, Derivation Tree, Ambiguity of Grammar, CFG simplification, Normal Forms, Pumping Lemma for CFG	4		
	Pushdown Automata: Definitions, Acceptance by PDA, PDA and CFG	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS401 Paper I **Theory of Computation** **UNIT III**	**Linear Bound Automata:** The Linear Bound Automata Model, Linear Bound Automata and Languages.	4	Theory of Computer Science, K. L. P Mishra, Chandrasekharan, PHI,3rd Edition. Introduction to Computer Theory, Daniel Cohen, Wiley,2nd Edition.	Chalk and Board
	Turing Machines: Turing Machine Definition, Representations, Acceptability by Turing Machines.	4		
	Designing and Description of Turing Machines, Turing Machine Construction, Variants of Turing Machine,	3		
	Undecidability: The Church-Turing thesis, Universal Turing Machine, Halting Problem, Introduction to Unsolvable Problems	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jagruti

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(CS) DIV:C SEMESTER: IV MONTH: NOVEMBER-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The course aims to understand the basics research, how research problems are defined, research methods are adopted and/or developed, research is undertaken, and how research results are communicated to the peers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USCS4071, unit1:, Title:RM	Introduction to Research Methodology: Meaning of Research, Objectives of Research, Motivations in Research, types of Research, Research Approaches, Significance of Research, Research Methods v/s Methodology, Research and Scientific Methods, Research Process, Criteria of Good Research	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

	Defining the Research Problem: Concept and need, Identification of Research problem, defining and delimiting Research problem. Formulating a Research Problem: Reviewing Literature, formulating a Research Problem, Research Question, Identifying Variables, Constructing Hypothesis	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	The Research Design: Meaning, Need for Research Design, Important Concepts, Different Research Designs, Basic Principles of Experimental Designs.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

Paper: USCS4071, unit2:, Title:RM	Tools for Data Collection: Collections of Primary Data, Collection of Data through questionnaire and Schedules, other Observation Interview Methods, Collection of Secondary Data, Selection of appropriate method for data collection, Case Study, Focus Group Discussion, Techniques of developing research tools, viz. Questionnaire and rating scales etc. Reliability and validity of Research tools.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	Sampling Design: Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, how to Select a Random Sample. Probability and Non-Probability sampling types and criteria for selection, Developing sampling Frames.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

	Overview of Hypothesis Testing: What is a Hypothesis? Characteristics of good Hypothesis. Basic Concepts, Procedure for Hypothesis Testing, Flow Diagram for Hypothesis Testing, Tests of Hypotheses, and One sided and two-sided hypothesis, Type – I and Type – II errors, Null HypothesisAlternative Hypothesis.	5	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

Paper: USCS4071, unit3:, Title:RM	Technical Writing: Writing a Research Proposal, what is a Scientific Paper? Ethics in Scientific Publishing. Preparing the Text: How to Prepare the Title, how to List the Authors and Addresses, how to Prepare the Abstract, how to Write the Introduction, how to Write the Materials and Methods Section, how to Write the Results, how to Write the Discussion, how to State the Acknowledgments, how to Cite the References.	8	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard
	Preparing the Tables and Figures: How to Design Effective Tables, how to Prepare Effective Graphs, how to Prepare Effective Photographs. Publishing the Paper: Rights and Permissions, How to Submit the Manuscript, How and When to Use Abbreviations, How to Write a thesis, Outcome of Research, Ethical issues in research	7	Kothari C.R., Research Methodology, Research Methodology-A Step-by-Step Guide for Beginners, (4th ed.), Ranjit Kumar.	PPT, Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 15

Jagruti

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **SYBSCCS** SEMESTER:**IV**

MONTH: **NOV-MARCH** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- Build useful mobile applications using Kotlin language on Android
- Install and configure Android Studio for application development
- Master basic to intermediate concepts of Kotlin required for mobile application development
- Use built-in widgets and components, work with the database to store data
- Master key Android programming concepts and deploy the application on Google Play

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS405 Android Application	**Introduction to Kotlin:** Basics of Kotlin, type conversions, comments, Kotlin operators, variables in Kotlin, packages, visibility modifiers, control flow statements, Concept of OOPS in Kotlin, classes in Kotlin, delegation and extension functions, the companion object,	03	Android Programming with Kotlin for Beginners, John	power point,

Development UNIT-1	**Advanced Concepts in Kotlin**: declaring and calling functions, parameters, and arguments in Kotlin, default argument, variable number of arguments, unit-returning function, explicit return type, lambda expression, coroutines, Collections in Kotlin, Mutable and Immutable Collections, Ranges, type Checks, casting concept, this expression, Null safety, exception handling,	03	Horton, Packt Publishing, 2019 Android Development with Kotlin:	Black Board

	annotations		Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	
	App Development with Android Studio: Android Architecture, Android Application Framework, Android Virtual Device, Creating and running First Android Application, working with Physical Android Device, Adding Kotlin Files in Android Studio	04		
	Basics Of Android- Application Components: Activities, Intent, and Broadcast Receiver, Services, Fragment, Activity Life Cycle, Content Provider, Widgets, and Notifications	05		
USCS405 Android Application Development UNIT-2	**Designing Android UI**: User Interface (UI), Layout and Its Types, Layout Attribute, working with Views, Android UI Controls, Styles and Themes, Event Handler, setting up themes in Manifest and from the application, dialog in activity, using intents, fragments	03	Android Programming with Kotlin for Beginners, John Horton, Packt Publishing, 2019 Android Development with Kotlin: Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	power point, Black Board
	Handle Images, Listview And Menu: ImageView, ImageSwitcher, ListView, Menu, and its types, Designing menu in XML, Option menu, Context menu, popup menu, Screen Navigation, RecyclerView, Interaction of Views	03		
	Data binding in Android-AdapterView, Spinner, Gallery view, AutotextCompleteView, screen orientation, Design the view dynamically	04		
	Implementing Data Persistence: Data Storage-Shared Preference, Internal And External Storage Storing Data Using SQLite Databases, Content Provider, Firebase Real-Time Data	05		
USCS405 Android	**Graphics, Animations, and Integrating Media in Android**: Drawable Class, Animation in Android, MediaPlayer API and in Android, Mediaplayer and AudioManger Class,	03	Android Programming with Kotlin for	power point, Black Board

Application Development	**Interacting With Camera and input gestures**: Android Camera, Input gestures-multiple touch, swipe, drag, scroll, zoom, Recording	03	Beginners, John Horton, Packt Publishing, 2019	

UNIT-3	**Managing Background Tasks**: Broadcaset Receivers, Services, Threads and Process, AsyncTask, JobScheduler, Manage device Awake State	04	Android Development with Kotlin: Enhance your skills for Android development using Kotlin, Marcin Moskala, Packt Publishing	
	Deploying Android applications on Google Play- Publishing/Deploy the application, Versioning, signing Application	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Shweta Kiran Yande DEPARTMENT: Computer Science

CLASS: T.Y.C.S. SEMESTER: VI

MONTH: Dec - March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

After completion of this course, learner should be able to list various applications of wireless sensor networks, describe the concepts, protocols, design, implementation and use of wireless sensor networks. Also implement and evaluate new ideas for solving wireless sensor network design issues.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 01	**Introduction:** Introduction to Sensor Networks, unique constraints and challenges. Advantage of Sensor Networks, Applications of Sensor Networks, Mobile Adhoc NETworks (MANETs) and Wireless Sensor Networks, Enabling technologies for Wireless Sensor Networks.	07	Protocols and Architectures for Wireless Sensor Network, Holger Kerl, Andreas Willig, John Wiley and Sons, 2005	PPT
	Sensor Node Hardware and Network Architecture: Single-node architecture, Hardware components & design constraints, Operating systems and execution environments, introduction to TinyOS and nesC. Network architecture, Optimization goals and figures of merit, Design principles for WSNs, Service interfaces of WSNs, Gateway concepts.	08		PPT

USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 02	**Medium Access Control Protocols:** Fundamentals of MAC Protocols, MAC Protocols for WSNs, Sensor-MAC Case Study.	05	Wireless Sensor Networks Technology, Protocols, and Applications ,Kazem Sohraby, Daniel Minoli and TaiebZnati, John Wiley & Sons, 2007	PPT
	Routing Protocols : Data Dissemination and Gathering, Routing Challenges and Design Issues in Wireless Sensor Networks, Routing Strategies in Wireless Sensor Networks.	05		PPT
	Transport Control Protocols : Traditional Transport Control Protocols, Transport Protocol Design Issues, Examples of Existing Transport Control Protocols, Performance of Transport Control Protocols.	05		PPT
USCS601 **Wireless Sensor Networks and Mobile Communication** UNIT : 03	**Introduction, Wireless Transmission and Medium Access Control:** Applications, A short history of wireless communication.	02	Mobile communications, Jochen Schiller,2nd Edition, Addison wisely , Pearson Education,2012	PPT
	Wireless Transmission: Frequency for radio transmission, Signals, Antennas, Signal propagation, Multiplexing, Modulation, Spread spectrum, Cellular systems.	05		PPT
	Telecommunication, Satellite and Broadcast Systems: GSM: Mobile services, System architecture, Radio interface, Protocols, Localization And Calling, Handover, security, New data services; DECT: System architecture, Protocol architecture; ETRA, UMTS and IMT- 2000. Satellite Systems: History, Applications, Basics: GEO, LEO, MEO; Routing, Localization, Handover.	08		PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS: TYCS

SEMESTER: VI MONTH: December to March ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- To understand the ethics, legality, methodologies and techniques of hacking.

The learners will be able to:

- Learner will know to identify security vulnerabilities and weaknesses in the target applications.
- They will also know to test and exploit systems using various tools and understand the impact of hacking in real time machines.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ethical Hacking Elective-II USCS506 Unit 1	**Information Security : Attacks and Vulnerabilities** **Introduction to information security :** Asset, Access Control, CIA, Authentication, Authorization, Risk, Threat, Vulnerability, Attack, Attack Surface, Malware, Security-Functionality-Ease of Use Triangle	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Types of malware : Worms, viruses, Trojans, Spyware, Rootkits	2	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016	Projector, Laptop, Black board& Chalk

			AND	

			Internet	
	Types of vulnerabilities : OWASP Top 10 : cross-site scripting (XSS), cross site request forgery (CSRF/XSRF), SQL injection, input parameter manipulation, broken authentication, sensitive information disclosure, XML External Entities, Broken access control, Security Misconfiguration, Using components with known vulnerabilities, Insufficient Logging and monitoring, OWASP Mobile Top 10, CVE Database	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Types of attacks and their common prevention mechanisms : Keystroke Logging, Denial of Service (DoS /DDoS), Waterhole attack, brute force, phishing and fake WAP, Eavesdropping, Man-in-the-middle, Session Hijacking, Clickjacking, Cookie Theft, URL Obfuscation, buffer overflow, DNS poisoning, ARP poisoning, Identity Theft, IoT Attacks, BOTs and BOTNETs	4	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND Internet	Projector, Laptop, Black board& Chalk
	Case-studies : Recent attacks – Yahoo, Adult Friend Finder, eBay, Equifax, WannaCry, Target Stores, Uber, JP Morgan Chase, Bad Rabbit	1	Internet	Projector, Laptop, Black board& Chalk
Ethical Hacking Elective-II USCS506 Unit 2	**Ethical Hacking – I (Introduction and pre-attack) Introduction:** Black Hat vs. Gray Hat vs. White Hat (Ethical) hacking, Why is Ethical hacking needed?, How is Ethical hacking different from security auditing and digital forensics?, Signing NDA, Compliance and Regulatory 15L concerns, Black box vs. White box vs. Black box, Vulnerability assessment and Penetration Testing.	5	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND Internet	Projector, Laptop, Black board& Chalk

	Approach : Planning - Threat Modeling, set up security verification standards, Set up security testing plan – When, which systems/apps, understanding functionality, black/gray/white, authenticated vs. unauthenticated, internal vs. external PT, Information gathering, Perform Manual and automated (Tools: WebInspect/Qualys, Nessus, Proxies, Metasploit) VA and PT, How WebInspect/Qualys tools work: Crawling/Spidering, requests forging, pattern matching to known vulnerability database and Analyzing results, Preparing report, Fixing security gaps following the report	5	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Enterprise strategy : Repeated PT, approval by security testing team, Continuous Application Security Testing,	3	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Phases: Reconnaissance/foot-printing/Enumeration, Scanning, Sniffing	2	CEH official Certified Ethical Hacking Review Guide, Wiley India Edition, 2007 AND INTERNET	Projector, Laptop, Black board& Chalk
	Ethical Hacking : Enterprise Security Phases : Gaining and Maintaining Access : Systems hacking – Windows and Linux – Metasploit and Kali Linux, Keylogging, Buffer Overflows, Privilege Escalation, Network hacking - ARP Poisoning, Password Cracking, WEP Vulnerabilities, MAC Spoofing, MAC Flooding, IPSpoofing, SYN Flooding, Smurf attack,	5	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk

Ethical Hacking Elective-II	**Applications hacking :** SMTP/Email-based attacks, VOIP vulnerabilities, Directory traversal, Input Manipulation, Brute force attack, Unsecured login mechanisms, SQL injection, XSS, Mobile	5	Certified Ethical Hacker Study Guide v9, Sean-Philip	Projector, Laptop, Black board& Chalk

USCS506 Unit 3	apps security,		Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	
	Malware analysis : Netcat Trojan, wrapping definition, reverse engineering	1	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk
	Phases : Covering your tracks : Steganography, Event Logs alteration	1	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk
	Additional Security Mechanisms : IDS/IPS, Honeypots and evasion techniques, Secure Code Reviews (Fortify tool, OWASP Secure Coding Guidelines)	3	Certified Ethical Hacker Study Guide v9, Sean-Philip Oriyano, Sybex; Study Guide Edition,2016 AND INTERNET	Projector, Laptop, Black board& Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GAYATREE KARNIK DEPARTMENT:IT SUBJECT:IR CLASS: TYCS SEM:VI

MONTH: December to March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

To provide a understanding of operating system, its structures and functioning

Develop and master understanding of algorithms used by operating systems for various purposes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
604 UNIT I	**Introduction to Information Retrieval:** Introduction, History of IR, Components of IR, and Issues related to IR, Boolean retrieval, Dictionaries and tolerant retrieval.	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point

604 UNIT II	**Link Analysis and Specialized Search:** Link Analysis, hubs and authorities, Page Rank and HITS algorithms, Similarity, Hadoop & Map Reduce, Evaluation, Personalized search, Collaborative filtering and content-based recommendation of documents and products, handling "invisible" Web, Snippet generation, Summarization, Question and Answering, Cross-Lingual Retrieval	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point, Chalk and Black board
604 UNIT III	**Web Search Engine:** Web search overview, web structure, the user, paid placement, search engine optimization/spam, Web size measurement, search engine optimization/spam, Web Search Architectures. **XML retrieval:** Basic XML concepts, Challenges in XML retrieval, A vector space model for XML retrieval, Evaluation of XML retrieval, Text-centric versus data-centric XML retrieval.	15	1) Introduction to Information Retrieval, C. Manning, P. Raghavan, and H. Schütze, Cambridge University Press, 2008 2) Modern Information Retrieval: The Concepts and Technology behind Search, Ricardo Baeza - Yates and Berthier Ribeiro – Neto, 2 nd Edition, ACM Press Books 2011.	Computer, Power point, Chalk and Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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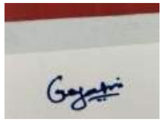

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **T.Y.B.Sc.(CS)**

SEMESTER: **VI** MONTH: **December- March** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To get a clear understanding of AI and different search algorithms used for solving problems.
- To get acquainted with different learning algorithms and models used in machine learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 **Paper 4** **Data Science** **UNIT I**	**Introduction to Data Science:** What is Data? Different kinds of data	3	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation R Tool
	Introduction to high level programming language + Integrated Development Environment (IDE)	4		
	Exploratory Data Analysis (EDA) + Data Visualization, Different types of data sources	4		
	Data Management: Data Collection, Data cleaning/extraction, Data analysis &Modeling	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 Paper 4 **Data Science** **UNIT II**	**Data Curation:** Query languages and Operations to specify and transform data, Structured/schema based systems as users and acquirers of data	4	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation
	Semi-structured systems as users and acquirers of data, Unstructured systems in the acquisition and structuring of data,	3		
	Security and ethical considerations in relation to authenticating and authorizing access to data on remote systems,	4		
	Software development tools, Large scale data systems, Amazon Web Services (AWS)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS606 **Paper 4** **Data Science** **UNIT III**	**Statistical Modelling and Machine Learning:** Introduction to model selection: Regularization, bias/variance tradeoff e.g. parsimony, AIC, BIC, Cross validation, Ridge regressions and penalized regression e.g. LASSO	5	Doing Data Science, Rachel Schutt and Cathy O'Neil, O'Reilly,2013 Mastering Machine Learning with R, Cory Lesmeister, PACKT Publication,2015	Microsoft PowerPoint Presentation R Tool
	Data transformations: Dimension reduction, Feature extraction, Smoothing and aggregating	2		
	Supervised Learning: Regression, linear models, Regression trees, Time-series Analysis, Forecasting, Classification: classification trees, Logistic regression, separating hyperplanes, k-NN	4		
	Unsupervised Learning: Principal Components Analysis (PCA), k-means clustering, Hierarchical clustering, Ensemble methods	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vishnu Waman Thakur Charitable Trust's
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Shweta Kiran Yande DEPARTMENT: CS

CLASS: M. Sc. C.S SEMESTER: I MONTH: September - December ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:
Learners will be able to understand basic concepts of Software Defined
Networking and network virtualization.. Learners will be able to explore OpenFlow specifications to build Software defined networks. Learners will be able to analyse and implement theories and practical related to Network management and Virtualization.. Learners will be able to apply knowledge of Software Defined Networking as per industry standards.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 2 PSCS102 Software Defined Networking Unit 1	Basic Concepts and Definitions: LAN, MAN, WAN, AD-Hoc, Wireless Network, Understanding the layered architecture of OSI/RM and TCP-IP Model, Concepts and implementation of IPV4 and IPV6, Study of various network Routing protocols, Introduction to Transport layer and Application layer protocols.	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Shweta Kiran Yande DEPARTMENT: CS

CLASS: M. Sc. C.S SEMESTER: II MONTH: February-May ACADEMIC YEAR: 2020-2021

LEARNING OBJECTIVE/S:
The learners will be able to:
Learn different computer attacks and different security techniques

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 2 PSCS102 Software Defined Networking Unit 2	Elements of Modern Networking, Requirements and Technology, SDN: Background and Motivation, SDN Data Plane and OpenFlow, SDN Control Plane, SDN Application Plane	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet
Paper 2 PSCS102 Software Defined Networking Unit 3	Concepts and Architecture, NFV Functionality, Network Virtualization Quality of Service, MODERN NETWORK ARCHITECTURE: CLOUDS AND FOG, Cloud Computing, The Internet of Things: Components	15	Software Defined Networks: A Comprehensive Approach by Paul Goransson and Chuck Black, Morgan Kaufmann Publications, 2014	PowerPoint presentation through google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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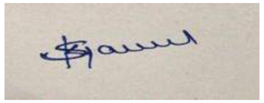
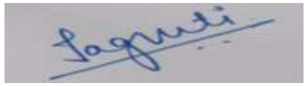


SIGNATURE OF THE STAFF



SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

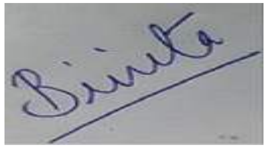
CLASS: M. Sc. C.S SEMESTER: I MONTH: September-December ACADEMIC YEAR: 2022-2023

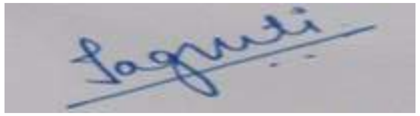
LEARNING OBJECTIVE/S:
The learners will be able to:

a. Analyse and implement theories and practical related to Network management and Virtualization.
b. Apply knowledge of Software Defined Networking as per industry standards.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Software Defined Networking Unit -IV	Understand and implement Layer 2/3 switching techniques (VLAN/TRUNKING/ Managing Spanning Tree), Implementation of OSPF V2 and V3, Implementation BGP	5	Behrouz A Forouzan —TCPIP Protocol Suite‖ Fourth Edition 2010	PowerPoint presentation
	Implementation Multicast Routing, Implementation of MPLS, Implementation of Traffic Filtering by using Standard and Extended Access Control List	5		PowerPoint presentation
	Implementation of Routing redistribution, Implementation of Policy Based Routing/ Load Balancing /QOS/Natting /VRF	5		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. CS SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:
a. To understand the role of cryptography in communication over an insecure channel.
b. To analyze and compare symmetric-key encryption and public-key encryption schemes based on different security models

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security (Cryptography and Cryptanalysis) Unit -I	**Cryptosystems and Basic Cryptographic Tools:** Introduction, Secret-key Cryptosystems, Public-key Cryptosystems, Block and Stream Ciphers, Hybrid Cryptography, Hybrid Cryptography, Message Integrity, Message Authentication Codes, Signature Schemes, Nonrepudiation, Certificates, Hash Functions, Cryptographic Protocols, Security	4	Cryptography Theory and Practice Douglas R. Stinson, , Fourth Edition, CRC Press, 2019	PowerPoint presentation
	Classical Cryptography: Introduction to Some Simple Cryptosystems, Shift Cipher, Substitution Cipher, Affine Cipher, Vigenere Cipher, Hill Cipher, Permutation Cipher, Stream Ciphers, Cryptanalysis, Cryptanalysis of the Affine Cipher, Cryptanalysis of the Substitution Cipher, Cryptanalysis of the Vigenere Cipher, Cryptanalysis of the Hill Cipher, Cryptanalysis of the LFSR Stream Cipher.	4		PowerPoint presentation
	Perfect Secrecy: Introduction, Perfect Secrecy, Entropy, Properties of Entropy, Spurious Keys, and Unicity Distance	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Binita Thakkar DEPARTMENT: IT

CLASS: M. Sc. CS SEMESTER: III MONTH: September-December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:
a. To understand the role of cryptography in communication over an insecure channel.
b. To analyze and compare symmetric-key encryption and public-key encryption schemes based on different security models

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-II Security (Cryptography and Cryptanalysis) Unit -II	**Block Ciphers and Stream Ciphers:** Substitution-Permutation Networks, Linear Cryptanalysis, Differential Cryptanalysis, Data Encryption Standard, Advanced Encryption Standard, Modes of Operation, Stream Ciphers	4	Cryptography Theory and Practice Douglas R. Stinson, , Fourth Edition, CRC Press, 2019	PowerPoint presentation
	Hash Functions and Message Authentication: Hash Functions and Data Integrity, Security of Hash Functions, Iterated Hash Functions, Sponge Construction, Message Authentication Codes, Unconditionally Secure MACs	4		PowerPoint presentation
	RSA Cryptosystem and Factoring: Public-key Cryptography, Number Theory-Euclidean Algorithm, Chinese Remainder Theorem, Other Useful Facts, RSA Cryptosystem, Primality Testing, Square Roots Modulo n, Factoring Algorithms, Rabin Cryptosystem, Semantic Security of RSA	4		PowerPoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Binita

SIGNATURE OF THE STAFF

Jagruti

SIGNATURE OF THE H.O.D.

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR DEPARTMENT: COMPUTER SCIENCE CLASS: MSc.Cs(Part I)

SEMESTER: I MONTH: OCTOBER-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- Learners will be able to explore XML, and Mobile databases.
- Learners will be able to deal with methods used for dealing with spatial and Temporal Databases.
- Learner will have a solid grasp on business intelligence tools and XML.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICTTOOLS USED
PSCS401 Unit 1, **Advanced Database Techniques**	**Enhanced Database Models** Object–Oriented Databases: Need of Object-oriented databases, Complex Data Types, Structured Types and Inheritance, Object-Identity and Reference, ODL and OQL, Implementing O-R Features, Persistent Programming Languages, Object-Oriented versus Object-Relational, Example of Object oriented and object relational database implementation, comparison of RDBMS, OODBMS, ORDBMS XML Databases: Structured Semi structure and unstructured data, XML hierarchical tree data model, Documents DTD and XML schema, XML Documents & Database, XML query and transformation, Storage of XML data, Xpath. XQuery, Join and Nesting Queries, XML database applications	07	Database Management Systems by Raghu Ramakrishnan and Johannes Gehrke, McGraw Hill, 3rd Edition, 2014	Power Point Presentation
	Spatial Databases: Types of spatial data, Geographical Information Systems (GIS), Conceptual Data Models for spatial databases, Logical data models for spatial databases: Raster and vector model. Physical data models for spatial databases: Clustering methods (space filling curves), Storage methods (R-tree). Query processing. Temporal Databases: Time ontology,	08	Database Management Systems by Raghu Ramakrishnan and Johannes	Power Point Presentation

	structure, and granularity, Temporal data models, Temporal relational algebra.		Gehrke, McGraw Hill, 3rd Edition, 2014	
PSCS401 Unit 3, **Advanced Database Techniques**	**Learning the NoSQL Basics** Introduction to NoSQL: Characteristics of NoSQL, NoSQL Storage types, Advantages and Drawbacks, NoSQL Products Interfacing and interacting with NoSQL: Storing Data In and Accessing Data from MongoDB, Redis, HBase and Apache Cassandra, Language Bindings for NoSQL Data Stores	07	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
	Understanding the storage architecture: Working with Column-Oriented Databases, HBase Distributed Storage Architecture, Document Store Internals, Understanding Key/Value Stores in Memcached and Redis, Eventually Consistent Non-relational Databases Performing CRUD operations: Creating Records, Accessing Data, Updating and Deleting Data	08	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
PSCS401 Unit 4, **Advanced Database Techniques**	**Gaining Proficiency With NoSQL** Querying NoSQL Stores: Similarities Between SQL and MongoDB Query Features, Accessing Data from Column-Oriented Databases Like HBase, Querying Redis Data Stores Indexing And Ordering Data Sets: Essential Concepts Behind a Database Index, Indexing and Ordering in MongoDB, ouchDB and Apache Cassandra	07	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation
	Managing Transactions And Data Integrity: RDBMS and ACID, Distributed ACID Systems, Upholding CAP, Consistency Implementations Using NoSQL in The Cloud: Google App Engine Data Store, Amazon SimpleDB	08	Getting Started with NoSQL, Gaurav Vaish, Packt Publishing Ltd, 2013	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **I** MONTH: **September - December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- To cover advanced topics of databases to become more proficient.
- To provide students with theoretical knowledge and practical skills in advanced topics in database systems, big data and modern data intensive systems.
- To expand students, view and introduce advanced topics and Business Intelligence.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS104 **Paper IV** **Advanced Database Techniques** **UNIT II**	**Unit II: Cooperative Transaction Model** Parallel and Distributed Databases: Architecture of parallel databases, Parallel query evaluation, Parallelizing individual operations, Sorting Joins Distributed Databases: Concepts, Data fragmentation, Replication and allocation techniques for distributed database design, Query processing, Concurrency control and recovery in distributed databases, Architecture and Design: Centralised versus non centralized Databases, Homogeneous and Heterogeneous DDBMS, Functions and Architecture, Distributed database design, query processing in DDBMS, Distributed concurrency management, deadlock management, Distributed Commit Protocols: 2 PC and 3 PC, Concepts of replication servers. Mobile Database: Overview, Features, Advantages and Disadvantages, Mobile databases in Android System	15	Database Management Systems, 3rd edition, Raghu Ramakrishnan and Johannes Gehrke, McGraw-Hill (2002).	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **III** MONTH: **September - December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understands the fundamentals of Visualization.
- Working with different Data Collection Structures.
- Efficiently handle various source data using Tableau.
- Data Visualization and Analysis can be performed using Tableau.
- Handling and customizing Geospatial data using Tableau.
- Creating a story using the dashboard to analyze data

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS3041 **Paper IV** **Data Visualization** **UNIT I**	**Preparing and Storing Data** **Series**: Creating a Series with index, creating a Series from a Dictionary, Creating a Series from a Scalar Value, Vectorized Operations and Label Alignment with Series, Name Attribute. Accessing Data from a Series with a Position, Exploring and Analysing a Series, Operations on a Series. **Data Frames**: Creating a Data Frame from a Dict of Series or Dicts, Creating Data Frames from a Dict of Ndarrays, Creating Data Frames from a Structured	15	Dr. Ossama Embarak, Data Analysis and Visualization Using Python, Apress, 2018 Wes McKinney, "Python for Data Analysis: Data Wrangling with	Microsoft PowerPoint Presentation

	or Record Array, Creating Data Frames from a List of Dicts, Creating Data Frames from a Dict of Tuples, Selecting, Adding, and Deleting Data Frame Columns, Assigning New Columns in Method Chains, Row Selection, Row Addition, Row Deletion, Exploring and Analysing a Data		Pandas, NumPy, and IPython", O'Reilly, 2nd Edition, 2018.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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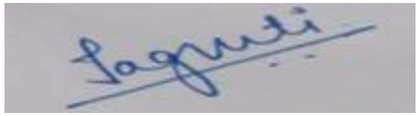
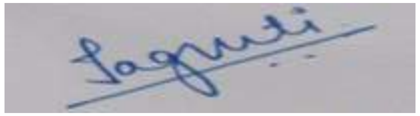
PSCS3041 **Paper IV** **Data Visualization** **UNIT II**	**Data Cleaning and Data Wrangling** **Data Gathering and Cleaning:** Cleaning Data, Checking for Missing Values, Handling the Missing Values, Reading and Cleaning CSV Data, Merging and Integrating Data, Reading Data from the JSON Format, HTML Format, XML Format. **Data Transformation Removing Duplicates:** Replacing Values, Renaming Axis Indexes **Hierarchical Indexing:** Reordering and Sorting Levels Summary' Statistics by Level Indexing with a DataFrame's columns. Combining and Merging Datasets Database-Style, DataFrame Joins Merging on Index Concatenating Along with an Axis Combining Data with Overlap **Reshaping and Pivoting:** Reshaping with Hierarchical Indexing Pivoting "Long" to "Wide" Format Pivoting "Wide" to "Long" Format **Statistical Analysis, Data Aggregation:** Data Grouping, Iterating Through Groups, Aggregations, Transformations, Filtration.	15	Dr. Ossama Embarak, Data Analysis and Visualization Using Python, Apress, 2018 Wes McKinney, "Python for Data Analysis: Data Wrangling with Pandas, NumPy, and IPython", O'Reilly, 2nd Edition, 2018.	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV**----DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:I

MONTH: **SEPT-DEC** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- You will be able to effectively implement optimization techniques to the Existing algorithm to improve its performance.
- You will be able to work in the areas of Machine Learning and Data Sciences Algorithms

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS101Algorithm for Optimization **Unit I: Introduction to Optimization Process**	Basic Optimization Problem, Constraints, Critical Points, Conditions for Local Minima, Contour Plots. Unimodality, Fibonacci Search, Golden Section Search, Quadratic Fit Search.	15	Algorithms for Optimization Mykel J. Kochenderfer, Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H.	Laptop,power point,blackboard

			Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	
PSCS101Algorithm for Optimization **Unit III: Sampling and Surrogate Models**	Sampling Plans, Full Factorial, Random Sampling, Uniform Projection Plans, Stratified Sampling, Space-Filling Metrics. Surrogate Models, Fitting Surrogate Models, Linear Models, Basis Functions, Fitting Noisy Objective Functions, Model Selection, Probabilistic Surrogate Models, Gaussian Distribution, Gaussian Processes, Prediction	15	Algorithms for Optimization Mykel J. Kochenderfer, Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	Laptop,power point,blackboard
	Optimization under Uncertainty, Uncertainty, Set-Based Uncertainty, Probabilistic Uncertainty. Uncertainty Propagation, Sampling	15	Algorithms for Optimization Mykel J. Kochenderfer,	Laptop,power point,blackboard

PSCS101Algorithm for Optimization **Unit IV: Optimization and Uncertainty**	Methods, Taylor Approximation, Polynomial Chaos, Bayesian Monte Carlo. Dynamic Programming, Ant Colony Optimization. Expression Optimization, Grammars, Genetic Programming, Grammatical Evolution, Probabilistic Grammars, Probabilistic Prototype Trees		Tim A. Wheeler, The MIT Press 2019. Introduction to Algorithms, By Thomas H. Cormen, Charles E. Leiserson, Ronald L. Rivest and Clifford Stein 3Ed. (International Edition) (MIT Press) 2009	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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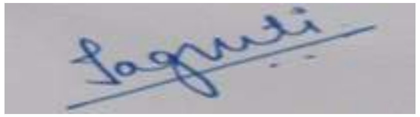

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Computer Science CLASS:MScCS

SEMESTER: I MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

Course Outcome: -

- To cover the technical aspects of cryptocurrencies, blockchain technologies, and distributed consensus.
- To familiarize potential applications for Bitcoin-like cryptocurrencies
- To Basics of smart contracts, decentralized apps, and decentralized anonymous organizations (DAOs)
- To know Solidity programming

Course Specific Outcome: -

- Understand blockchain technology.
- Develop blockchain-based solutions and write smart contracts using Hyperledger Fabric and Ethereum frameworks.
- Build and deploy blockchain applications for on-premise and cloud-based architecture.
- Integrate ideas from various domains and implement them using blockchain technology from different perspectives.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS3011 Advanced Computing (Web3 Technologies) Unit-II	**Smart Contracts & Ethereum** Smart Contracts: History, Definition Ricardian contracts, Smart contract templates, Oracles, Deploying smart contracts, The DAO **Ethereum**: Overview, Ethereum network, Components of the Ethereum ecosystem, The Ethereum Virtual Machine (EVM), Smart contracts, Blocks and Blockchain, Wallets and client software, Nodes and miners, APIs, tools, and DApps, Supporting protocols, Programming languages,	15L	Andreas M. Antonopoulos, Dr.Gavin wood "Mastering Ethereum" O"Reilly Media Inc, 2019	Laptop, PPT

	Ethereum Development Environment: Overview, Test networks, Components of a private network, starting up the private network, mining on the private network, Remix IDE, MetaMask, Using MetaMask and Remix IDE to deploy a smart contract			
PSCS3011 Advanced Computing (Web3 Technologies) Unit-III	**Serenity, Ethereum, Hyperledger & Tokenization** **Web3:** Exploring Web3 with Geth, Contract deployment, interacting with contracts via frontends **Development frameworks:** Serenity, Ethereum 2.0—an overview, Development, phases, Architecture **Serenity:** Ethereum 2.0—an overview, Development phases, Architecture **Hyperledger:** Projects under Hyperledger, Hyperledger reference architecture, Hyperledger Fabric, Hyperledger Sawtooth, Setting up a sawtooth development environment. **Tokenization:** Tokenization on a blockchain, Types of tokens, Process of tokenization, Token offerings, Token standards, Trading and finance, DeFi, Building an ERC-20 token, emerging concepts	15L	Andreas M. Antonopoulos, Dr.Gavin wood "Mastering Ethereum" O"Reilly Media Inc, 2019	Laptop, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___**MS. KSHITIJA. P. PALAV (MANE)** DEPARTMENT: **INFORMATION TECHNOLOGY**

CLASS:_____**MSC (CS)** ___ SEMESTER:_____**I**______ MONTH: **SEPTEMBER-DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to :

- **Review the fundamental concepts of a digital image processing system.**
- **Analyze images in the frequency domain using various transforms.**
- **Interpret image segmentation and representation techniques.**
- **Understand the relevant aspects of digital image representation and their practical implications.**
- **Have the ability to design pointwise intensity transformations to meet stated specifications and understand 2-D convolution, the 2-D DFT, and have the ability to design systems using these concepts.**
- **Knowledge of Perform frequency domain operations on images.**
- **Ability to apply image segmentation and extract image featu**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS103 Applied Signal and Image Processing	**Structural and Morphological Operations:** Edge Detection: Sobel, Canny Prewitt, Robert edge detection techniques, LoG and DoG filters, Image Pyramids: Gaussian Pyramid, Laplacian Pyramid Morphological Image Processing: Erosion, Dilation, Opening and closing, Hit-or-Miss Transformation, Skeletonizing, Computing	07 08	Digital Image Processing by Rafael Gonzalez & Richard Woods, Pearson; 4th edition, 2018	Blackboard, Chalk and Duster. PPts.

Unit No -03	the 15L 15 convex hull, removing small objects, White and black top-hats, Extracting the boundary, Grayscale operations			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15			
PSCS103 Applied Signal and Image Processing **Unit No -04**	**Advanced Image Processing Operations** Extracting Image Features and Descriptors: Feature detector versus descriptors, Boundary Processing and feature descriptor, Principal Components, Harris Corner Detector, Blob detector, Histogram of Oriented Gradients, Scale-invariant feature transforms, Haar-like features Image Segmentation: Hough Transform for detecting lines and circles, Thresholding and Otsu's segmentation, Edge-based/regionbased segmentation Region growing, Region splitting and Merging, Watershed algorithm, Active Contours, morphological snakes, and GrabCut algorithms	07 04 04	Digital Image Processing by Rafael Gonzalez & Richard Woods, Pearson; 4th edition, 2018	Blackboard, Chalk and Duster. PPts.
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15			

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Keshav Patil College of Commerce Vidhya
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAJAKTA HATKAR   DEPARTMENT: COMPUTER SCIENCE   CLASS: MSc.Cs(Part II)

SEMESTER: I**V**   MONTH: FEBRUARY-MAY   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

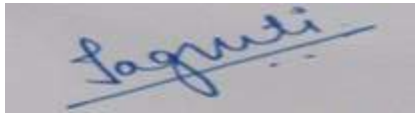
- Knowledge about the fundamentals of Robotics and its applications
- Ability to use Raspberry Pi for programming Robotics
- Ability to apply robotics in speech and vision problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS401 Unit 1, **Robotics**	**Introduction to Robotics** Introduction to Robotics: What is a robot? Examples of Advanced and impressive robots, Robots in the home, Robots in industry	07	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation
	Robotics in Action Exploring Robot Building Blocks - Code and Electronics Technical requirements, Introducing the Raspberry Pi - Starting with Raspbian Technical requirements, Raspberry Pi controller on a robot.	08	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation
PSCS401 Unit 3, **Robotics**	**Servo Motors** Use and control of servo motors, pan, and tilt mechanism. Distance sensors, Introduction to distance sensors and their usage	07	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation

	Connecting distance sensors to robot and their testing. Creating a smart object avoidance behavior. Creating a menu to select different robot behaviors, Distance and speed measuring sensors—encoders and odometry	08	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Power Point Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV----**DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:IV

MONTH: **FEB-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the context and use of neural networks and deep learning ● Understand the tools and libraries for deep learning ● Have a working knowledge of neural networks and deep learning ● Explore the parameters for neural networks ● Identify emerging applications of deep learning

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS402 Advanced Deep Learning UNIT 1: Neural Network for Deep Learning	Optimization and Neural Network: Review of Neural Network fundamentals, the problem of Learning, Implementing single Neuron-Linear and Logistic Regression, Deep Learning: Fundamentals, Deep Learning Applications, Popular open-source libraries for deep learning Feed- Forward Networks: Networks architecture and Matrix notation, Overfitting, Multiclass Classification with Feed-Forward Neural Networks, Estimating Memory requirement of Models	15	Advanced Deep Learning with Keras, Rowel Atienza, Packt Publication, 2018	power point

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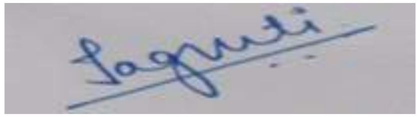
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: -**MRS.JYOTI PRABHAKAR JADHAV**----DEPARTMENT: **IT** CLASS: **MSCCS** SEMESTER:II

MONTH: **FEB-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to :

- Understand core concepts of ML through implementations in python.
- Working with diverse toolkits and packages useful for developing projects In ML
- Implement and understand deep learning and ANNs useful for industry today.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 Applied Machine and Deep Learning **UNIT 1: (Ability Enhancement)**	What is Machine Learning? Why use Machine Learning? Types of Machine Learning, Supervised Learning, Unsupervised Learning & Reinforcement Learning. Challenges of Machine Learning, Testing Learning, and Validation A First Application: Classification, MNIST Dataset, Performance	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by	power point

The Fundamentals of Machine Learning	Measures, Confusion Matrix, Precision and Recall, Precision/Recall Tradeoff, The ROC Curve, Multiclass Classification, Error Analysis.		AurélienGéron, Second Edition, O'reilly 2019	
PSCS201 Applied Machine and Deep Learning **UNIT 2: Training Models**	Linear Regression, Gradient Descent, Batch Gradient Descent, Stochastic Gradient Descent, Mini-batch Gradient Descent, Polynomial Regression, Learning Curves, The Bias/Variance Tradeoff, Ridge Regression, Lasso Regression, Early Stopping, Logistic Regression, Decision Boundaries, Softmax Regression, Cross Entropy.	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by AurélienGéron, Second Edition, O'reilly 2019	power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **II** MONTH: **February - April** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Understand core concepts of ML through implementations in python.
- Working with diverse toolkits and packages useful for developing projects in ML
- Implement and understand deep learning and ANNs useful for industry today.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 **Paper I** **Applied Machine and Deep Learning** **UNIT III**	**UNIT 3: Support Vector Machines** Linear SVM Classification, Soft Margin Classification, Nonlinear SVM Classification, Polynomial Kernel, Gaussian RBF Kernel, SVM Regression, Decision Trees, Training and Visualizing a Decision Tree, Making Predictions, The CART Training Algorithm, Gini Impurity vs Entropy, Regularization Hyperparameters.	15	Hands-on Machine Learning with Scikit-Learn, Keras, and TensorFlow Concepts, Tools, and Techniques to Build Intelligent Systems by AurélienGéron, Second Edition, O'reilly 2019	Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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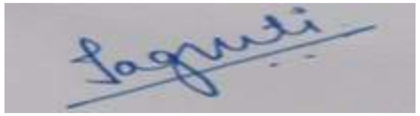
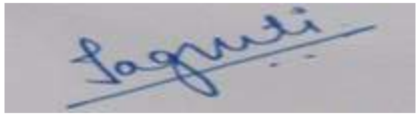
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS201 **Paper I** **Applied Machine and Deep Learning** **UNIT IV**	**UNIT 4: (Skill Enhancement)** **Fundamentals of Deep Learning** What is Deep Learning? Need Deep Learning? Introduction to Artificial Neural Network (ANN), Core components of neural networks, Multi-Layer Perceptron (MLP), Activation functions, Sigmoid, Rectified Linear Unit (ReLU), Introduction to Tensors and Operations, Tensorflow framework.	15	Deep Learning with Python by François Chollet Published by Manning 2018	Microsoft PowerPoint Presentation



SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **M.Sc. (CS)**

SEMESTER: **IV** MONTH: **February- April** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:

- Knowledge of implementing neural network architectures for deep learning.
- Skill to implement regularization and optimization of neural network
- Ability to implement advanced networks like CNN, RNN and GAN
- Implement deep learning for advanced applications like object identification, speech, and

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS402 **Paper II** **Advanced Deep Learning (Online Mode) UNIT II**	**Convolutional and Recurrent Networks for Deep Learning** **Regularization:** Complex Network and Overfitting, Regularization and related concepts, Hyperparameter tuning **Convolutional Neural Networks:**Kernels and Filters,Building Blocks of CNN, Inception Network, Transfer Learning **Recurrent Neural Network:** Notation and Idea of recurrent neural networks, RNN Topologies, backpropagation through time, vanishing and exploding gradients	15	Python Deep Learning, Valentino Zocca, Packt Publication, 2017 Applied Deep Learning, with TensorFlow 2, Umberto Michelucci, Apress, 2022	Google Meet Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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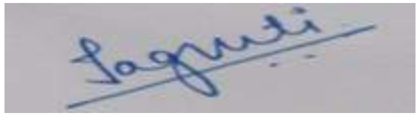
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS402 **Paper II** **Advanced Deep Learning (Online Mode)** **UNIT III**	**Advanced Concepts for Deep Learning** **Autoencoders**: Introduction, Network Design, Regularization in Autoencoders, Denoising autoencoders, Feed-Forward Autoencoders, spare and Contractive autoencoders **Unsupervised Feature Learning:** Hopfield networks and Boltzmann machines, restricted Boltzmann machine, Deep belief networks **Generative Adversarial Networks (GANs):**Introduction, training algorithms, Conditional GANs, applications, Deep convolutional generative adversarial networks	15	Python Deep Learning, Valentino Zocca, Packt Publication, 2017 Applied Deep Learning, with TensorFlow 2, Umberto Michelucci, Apress, 2022	Google Meet Microsoft PowerPoint Presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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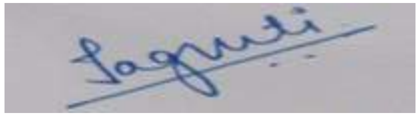

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS

CLASS: M.Sc. CS SEMESTER: II MONTH: APRIL TO JUNE ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To Understand the difference between Web Mining and Data mining.
- To Understand the Basics and Needs of Web Mining.
- To Understand Web-based Data.
- To Understand Opinion Mining and Sentiment classification.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Mining (PSCS203) Unit III	Social Network & Link Analysis Link Analysis, Scrapy using python (without pipelining), Social Network Analysis	8	Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data by Bing Liu (Springer Publications) 2017	PPT, Chalk and black board
	Co-Citation and Bibliographic Coupling, PageRank, HITS, Community Discovery	7		
Web Mining (PSCS203) Unit IV	Webpage crawlers and usage mining Basic Crawler Algorithm, Implementation Issues, Universal Crawlers, Focused Crawlers, Topical Crawlers, Crawler Ethics and Conflicts.	8	Web Data Mining: Exploring Hyperlinks, Contents, and Usage Data by Bing Liu (Springer Publications) 2017	PPT, Chalk and black board
	Data modelling and webpage usage mining., Discovery and analysis of web usage patterns, Recommender systems and collaborative filtering, query log mining	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. MONIKA MADHUKAR RAUT DEPARTMENT: CS

CLASS: M.Sc. CS SEMESTER: IV MONTH: FEBRUARY-MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Knowledge about the fundamentals of Robotics and its applications
- Ability to use Raspberry Pi for programming Robotics
- Ability to apply robotics in speech and vision problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
(PSCS401) Unit II Robotics	**Building Robot Basics:** **Technical requirements**: Robot chassis kit with wheels and motors, a motor controller, Powering the robot, Test fitting the robot, Assembling the base.	8	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Google Meet, Jam board, PPT
	Robot Programming: Programming technique, adding line sensors to our robot, creating line-sensing behaviour, and Programming RGB Strips in robot.	7		
(PSCS401) Unit IV Robotics	**Robot Vision and Voice Communication (Skill Enhancement)** **Robotics setup:** Setting up a Raspberry Pi Camera on the robot (software and hardware), Check the robot vision on a phone or laptop, Mask images with RGB strips	8	Danny Staple, Robotics Programming, Packt Publishing, 2nd edition, Feb 2021	Google Meet, Jam board, PPT
	Robotics for Vision and Voice Applications: Colors, masking, and filtering – chasing coloured objects, detecting faces with Haar cascades, Finding objects in an image, Voice Communication with a robot	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pranali Dayanand Thakare DEPARTMENT: Information Technology CLASS:MScCS

SEMESTER: II MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- The course is designed to enable students, to understand and implement IoT in industry.
- Design and executive projects in IoT with Automatic Identification and Data Capture.
- Understand basic components and functionalities of Embedded System including its hardware.
- Effectively achieve collaboration of various technologies in IoT and enable the same using software programming like Python, Embedded C etc.
- Understand case studies in IoT and replicate the same for more detailed analysis of the IoT development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS204 Embedded and IoT **UNIT _1**	**UNIT 1: Embedded System Basics** **Introduction to Embedded Systems, Design of Embedded Systems,** **Memory Architecture, Input/Output. Basic electronics: Semiconductors, Transistors, BJT, Flip Flops, Resistors, Capacitors,** **CMOS, MOSFET, FPGA, Relays. Microcontrollers, UART Communications, SPI-peripherals interface, I2C communication,** **Wireless Sensor Network (WSN)**	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT
PSCS204 Embedded and IoT	**UNIT 4: (Skill Enhancement)** **Security, Communication and Data analytics in IOT** **IoT Security: Security constraints in IoT systems, security**	15L	Enabling the Internet of Things Fundamentals, Design and Applications by	Laptop, PPT

UNIT _4	**requirements of IoT systems, IoT attacks, security threats at each layer of IoT architecture, design secure IoT system for specific application Social IoT: Nature of social relationships among IoT Devices, functionality of different components of social IoT architecture, social aspects of smart devices in IoT applications Packet Tracer and IoT: Basics of Packet Tracer and Blockly programming language, design simple IoT projects in Packet Tracer.**		Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Roshan Brid DEPARTMENT: Information Technology CLASS:MScCS

SEMESTER: II MONTH:JAN to MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:

- The course is designed to enable students, to understand and implement IoT in industry.
- Design and executive projects in IoT with Automatic Identification and Data Capture.
- Understand basic components and functionalities of Embedded System including its hardware.
- Effectively achieve collaboration of various technologies in IoT and enable the same using software programming like Python, Embedded C etc.
- Understand case studies in IoT and replicate the same for more detailed analysis of the IoT development.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCS204 Embedded and IoT Technology Unit-II	**UNIT 2: Basics of IOTethics and Issue** **Introduction IoT**:Evolution of the IoT concept, vision and definition of IoT, basic characteristics of IoT, distinguish the IoT from other related technologies, IoT enablers, IoT architectures, pros and cons of IoT, IoT architecture concepts for specific IoT applications. **IoT Building Blocks -Hardware and Software:**The basic IoT building blocks, smart thing components and capabilities, basics of Packet Tracer with reference to IoT, basics of IoT gateway, Cloud, and analytics **Sensing Principles and Wireless Sensor Network:**Sensor fundamentals and classification of sensors, physical principles of some common sensors, basics of WSNs, WSN architecture and types, layer-level functionality of WSN protocol stack.	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT

PSCS204 Embedded and IoT Technology Unit-III	**UNIT 3: Advanced IOT Technologies** **IoT Gateway:**IoT architecture domains, IoT gateway architecture, IoT gateway functionalities, IoT gateway selection criteria, IoT gateway and edge computing, edge computing-based solution for specific IoT applications **IoT Protocol Stack**:Mapping of IoT protocols to layered IoT architecture, functionality of infrastructure, service discovery, and application layer protocols of IoT protocol stack **IoT Cloud and Fog Computing:**Components of IoT Cloud architecture, usage of application domains of IoT Cloud platforms, layered architecture of Fog computing, distinguish Fog computing from other related terms **IoT Applications:**Main applications of IoT, Implementation details of various IoT application domains	15L	Enabling the Internet of Things Fundamentals, Design and Applications by Muhammad Azhar Iqbal, Sajjad Hussain, Huanlai Xing, Muhammad Ali Imran Wiley Pub.1stEdition 2021	Laptop, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Avinash Dilip Sonawan DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: September to December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit I	Internet and the World Wide Web: What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address,	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla. search engine, web saver – apache, IIS, proxy server, HTTP protocol What Is Web Design?: Defining Web Design, Web Design Themes, Learning Web Design	04		

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Web Technology (USDS103) Unit I	User-Centered Design: Usability, Who Are Web Users? Common User Characteristics, Memory, Response and Reaction Times, Dealing with Stimulus, Movement Capabilities, The User's World, General Types of Users, Web Conventions, Accessibility, Building a Usable Site HTML5: Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors.	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
Web Technology (USDS103) Unit II	**HTML5 Page layout and navigation:** Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: 12 creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

A.D. Sonawane

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit III	**Introduction to Style Sheets** : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles, Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets **Formatting Text by Using Style Sheets**: Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining, Creating Inline Spans , Adjusting Spacing Between Letters	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	Formatting Paragraphs by Using Style Sheets: Indenting Paragraphs, Applying a Border to a Paragraph, Specifying a Border Style, Setting Border Padding, Specifying Border Width and Color, Formatting Border Sides Individually,	04		

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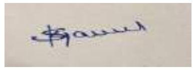
	Setting All Border Attributes at Once, Specifying the Horizontal Alignment of a Paragraph, Specifying Vertical Space within a Paragraph **Displaying Graphics**: Selecting a Graphics Format, Preparing Graphics for Web Use, Inserting Graphics, Arranging Elements on the Page, Controlling Image Size and Padding, Hyperlinking from Graphics, Using Thumbnail Graphics, Including Alternate Text for Graphics, Adding Figure Captions			

Web Technology (USDS103) Unit III	**Java Script:** Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, regExp **Document and its associated objects**: document, document object methods, Link, Area, Anchor, Image, Layer	04	JavaScript 2.0: The Complete Reference Thomas Powell and Fritz Schneider TMH 2 nd 2004	Black board and chalk
	Events and Event Handlers : General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: DS

CLASS: FYDS SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To discuss various components of communication, explain how non-verbal communication techniques enhance communication and explain the barriers to communication.
- To discuss various business activities which are essential at workplace. To explain business communication covering the structure and layout of a letter, planning of a letter and use of language.
- To explain the use of agenda and minutes for effective functioning of any organisation.
- To direct the learners' attention to the significance of effective writing and the importance and structure of reports.
- To explain to interpret information ethics (IE) as the branch of the philosophy of information that investigates, in a broad sense, the ethical impact of Information and Communication Technologies (ICTs) on human life and society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS104:Business Communication and Information Ethics **Unit 1**	**Interpretation of Communication** **B**asics of communication, Non-verbal communication, Barriers to communication	**6**	**Professional Communication by Aruna Koneru**	**Blackboard and chalk** **PPT , Projector**
	Business communication at workplace Letter components and layout, Planning a letter, Process of letter writing	**6**		

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USDS104: Business Communication and Information Ethics Unit 2	**Business communication at workplace** Email communication, Memos and memo reports, Employment communication. Notice, Agenda and minutes of meeting, Brochures.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk PPT , Projector**
USDS104: Business Communication and Information Ethics Unit 3	**Report Writing:** Effective writing, Types of business reports, Structure of reports, Gathering Information	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 4	**Report Writing:** Organisation of material, writing abstracts and summaries, Writing definitions, Visual aids, User Instruction Manual.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 5	**Information Ethics** Ethics after the information revolution, what is information ethics? The method of abstraction	**12**	**The Ethics of Information by Luciano Floridi**	**Blackboard and chalk**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYDS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand the components of environments and the need to conserve it
- Students should be able to know the relationship between each and every organism and identify the problem which the world is facing.
- To select, the appropriate life style to save the life on earth

Unit 3	**Environmental Pollution** Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Solid Waste Management, Hazardous Waste Management, Pollution Prevention, Disaster Management	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**
	Human Population and the Environment Population Growth, Human Rights, Value Education, HIV/AIDS, Environment and Human Health, Family Welfare Programmes, Women and Child Welfare, Role of Information Technology in Environment and Human Health	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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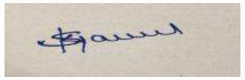

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To learn the Programming fundamentals using Python
- To learn the concepts and usage data types, variables and other basic elements of Python
- To understand operators and control statements in Python
- To learn using arrays and strings in Python.
- To understand IPython architecture for Python.
- To understand data Science Tools
- To learn plotting data using appropriate Python visualization libraries

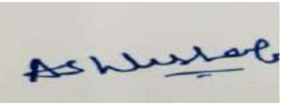
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming (USDS102) Unit I	Introduction to Python Language: Overview, Features of Python, Execution of a Python Program, Innards of Python, Frozen Binaries, Python Interpreter, Comparison of Python with C and Java, Installing Python, Writing & Executing, IDLE	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Data Types, Variables And Other Basic Elements: Comments, Docstrings, Data types-Numeric, Compound, Boolean, Dictionary, Sets, Mapping, Basic Elements of Python, Variables	03		
	Input and Output Operations: Input Function, Output Statements,Command Line Arguments	03		

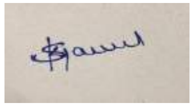
	Control Statements: Control Statements- Loop Statement, The else Suite, break Statement, continue Statement, pass Statement, assert Statement, return Statement	03		
Introduction to Programming (USDS102) Unit II	Functions: Defining & Calling a Function, Returning Results, Returning Multiple Values, Built-in Functions, Parameters and Arguments, Recursive Functions, Anonymous or Lambda Functions	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Operators: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	03		
	Arrays: Creating Arrays, Indexing and Slicing, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic Slicing. Advanced Indexing. Dimensions of Arrays, Attributes of an Array	03		
	Strings: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing & Slicing, Repeating & Concatenation of Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Strings are Immutable, Splitting and Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting & Searching in the Strings, Formatting the Strings, Working with Characters	03		
Introduction to Programming (USDS102) Unit III	Lists and Tuples: Lists, List Functions and Methods, List Operations, Tuples	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Ordered Dictionaries	03		

	Regular Expressions: What is a Regular Expression? Sequence Characters in Regular Expressions, Quantifiers in Regular Expressions, Special Characters in Regular Expressions, Using Regular Expression on Files, Retrieving Information from an HTML File	03		
	Date and Time in Python: Date and Time, Date and Time Now, Combining Date and Time, Formatting Dates and Times, Finding Durations using “timedelta”, Comparing Two Dates, Sorting Dates, Stopping Execution Temporarily, Knowing the Time taken by a Program, Working with Calendar Module	03		
Introduction to Programming (USDS102) Unit IV	IPython: Beyond Normal Python, Help and Documentation in IPython, Keyboard Shortcuts in the IPython Shell, IPython Magic Commands, Input and Output History, IPython and Shell Commands, Errors and Debugging, Profiling and Timing Code	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk
	Introduction to NumPy: Understanding Data Types in Python, The Basics of NumPy Arrays, Computation on NumPy Arrays: Universal Functions, Aggregations: Min, Max, and Everything In Between, Computation on Arrays: Broadcasting, Comparisons, Masks, and Boolean Logic, Fancy Indexing, Sorting Arrays, Structured Data: NumPy's Structured Arrays	06		
Introduction to Programming (USDS102) Unit V	Data Manipulation with Pandas: Introducing Pandas Objects, Data Indexing and Selection, Operating on Data in Pandas, Handling Missing Data, Hierarchical Indexing, Combining Datasets: Concat and Append, Combining Datasets: Merge and Join, Aggregation and Grouping, Pivot Tables, Vectorized String Operations, Working with	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk

	Time Series. High-Performance Pandas: eval( ) and query( )			
	Visualization with Matplotlib: Simple Line Plots, Simple Scatter Plots, Visualizing Errors, Density and Contour Plots, Histograms, Binnings, and Density, Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Customizing Ticks, Customizing Matplotlib: Configurations and Stylesheets, Three-Dimensional Plotting in Matplotlib, Geographic Data with Basemap, Visualization with Seaborn	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





SIGNATURE OF THE STAFF

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
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VIVA COLLEGE, Virar (W)

Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data Science

CLASS: Fybsc(DS)

SEMESTER: 1

MONTH: September to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- To understand the use and importance of statistical data by tabulating and implementing sampling methods.
- identify association between the variables as well as computing consistent and inconsistent data.
- compute level of measures and apply as well as interpret data into graphs.
- Apply measure of central tendency to minimize the sum of squared deviation.
- Able to understand the basic assumption behind regression analysis and determine the model is significance as well as able to apply various techniques for the modelling.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	Reference /s	Teaching method Ict tool used
Paper: Statistical Methods **<u>Unit 1</u>**	**Introduction to Statistics and Use in Business:** ➢ Meaning of Statistics as a Science, Importance of Statistics, ➢ Scope of Statistics : In the field of Industry, Biological Sciences,Medical Sciences, Economics Sciences, Social,	**5**	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second	Black board, chalk and Duster

	Sciences,Management Sciences, Agriculture, Insurance, InformationTechnology, Education and Psychology. ➢ Statistical organizations in India and their functions: CSO, ISI,NSS, IIPS (Devnar, Mumbai), Bureau of Economics andstatistics. ➢ Case Study.		edition	

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	Types of Data and Data Condensation: ➢ Method of sampling: Concept of population and sample. Finite Infinite population ,Notion ofSRS,SRSWOR and SRSWR ➢ Types of Characteristics, Different types of scales: nominal,ordinal, interval and ratio scale. Linear and circular scale. ➢ Types of Data: Primary data, Secondary data, Collection of data and concept of questionnaire and a schedule, Cross-sectional data,time series data, failure data, industrial data, and directional data. ➢ Tabulation. ➢ Dichotomous classification- for two and	4	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	three attributes, Verification for consistency. ➢ Association of attributes: Yule's coefficient of association Q. ➢ Yule's coefficient of Colligation, ➢ Notion of a statistical population: Finite population infinite ➢ population,homogeneous population and heterogeneous population. Notion of sample, random sample and non-random sample.			
	Presentation of Data ➢ Univariate frequency distribution of discrete and continuous variables. ➢ Cumulative frequency distribution and relative frequencydistribution. ➢ Graphical representation of frequency distribution by Histogram,frequency polygon, Cumulative frequency curve. Stem and leafdiagram ➢ Check sheet, Parato diagram	3	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

Unit 2	**Measures of central tendencies** ➢ Concept of central tendency of data. Requirements of good measure ➢ Locational averages: Median, Mode, and Partition Values: Quartiles,Deciles, and	6	Statistical Methods, An n itroductory Text,Medhi J. New Age Internation alLtd. Second Edition	Black board, chalk and Duster

	Percentiles, Box Plot, Percentile ranks ➢ Mathematical averages Arithmetic mean (Simple, weighted mean, combinedmean), Geometricmean, Harmonic mean ➢ Empirical relation between mean, median and mode ➢ Merits and demerits of using different measures &their applicability ➢ Partition Values : Quartiles, Deciles and Percentiles, Box Plot, ➢ Percentile ranks			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

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	Measures of Dispersion, Skewness & Kurtosis ➢ Concept of dispersion. Requirements of good measure. ➢ Absolute and Relative measures of dispersion: Range, Quartile Deviation, Mean absolute deviation, Standard deviation. ➢ Variance and Combined variance, raw moments and central moments and relations between them. Their properties ➢ Concept of Skewness and	6	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	Kurtosis: Measures of Skewness: KarlPearson's, Bowley's and Coefficient of skewness based on moments. Measure of Kurtosis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

Unit 3	**Mean square deviation:** ➢ **Definition, minimality property of mean square deviation (with proof),** ➢ **Variance and standard deviation: Definition, merits and demerits, effect of change of origin and scale, combined variance (derivation for 2 groups), combined standard deviation, generalization for n groups.**	7	Statistical Methods And introductory Text, Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

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	➢ **Measures of dispersion for comparison: coefficient of range, coefficient of quartile deviation and coefficient of mean deviation,coefficient of variation (C.V.).**	5	Statistical Methods, And introductory Text ,Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lecture

SIGNATURE OF TEACHER

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(Data Science) Div:A SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn the essential Python data structures; To learn the significant Python implementation of popular data structures; To learn about various data structure algorithms and design paradigms; To acquire knowledge of how to create complex data structures; To acquire basic understanding of complex data structures such as trees and graphs and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USDS302 unit:1, Title: Data Structures and Algorithms Using Python	**Python Objects & Object-Oriented Programming**: Goals, Principles, and Patterns, Overview of data types and objects, Classes and object programming, Class Definitions, Inheritance, Data encapsulation and properties, Namespaces and Object-Orientation, Shallow and Deep Copying	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Python Data Types and Strutures: Modules for data structures and algorithms- Collections, Deques, ChainMap objects Counter, Counter objects, Ordered dictionaries defaultdict, Learning about named tuples Arrays.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Principles of Algorithm Design: An introduction to algorithms, Algorithm design paradigms Recursion and backtracking, Backtracking, Divide and conquer - long multiplication The recursive approach Runtime analysis Asymptotic analysis Big O notation, Composing complexity classes Omega notation, Theta notation, Amortized analysis.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard

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Paper: USDS302 unit:2, Title: Data Structures and Algorithms Using Python	**Lists and Pointer Structures**:Arrays-Pointer structures. **Singly linked lists**-Singly linked list class, The append operation, A faster append operation, Getting the size of the list, Improving list traversal, Deleting nodes, List search, Clearing a list	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Doubly linked lists-A doubly linked list node Doubly linked list class Append operation The delete operation List search.	3	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Circular lists-Appending elements, Deleting an element in a circular list, Iterating through a circular list **Stacks:** Stack implementation, Push operation, Pop operation, Peek operation, Bracket-matching application,	5	Hands-On Data Structures andAlgorithms with Python	Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYDS

SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 1	THE COMPELLING NEED FOR DATA WAREHOUSING: Escalating Need for Strategic Information, Failures of Past Decision-Support Systems, Operational Versus Decision-Support Systems, Data Warehousing—The Only Viable Solution, Data Warehouse Defined, The Data Warehousing Movement, Evolution of Business Intelligence	3	DATA WAREHOUSING FUNDAMENTALS FOR IT PROFESSIONALS BY- PAULRAJ PONNIAH	BLACK BOARD AND CHALK
	DATA WAREHOUSE: The Building Blocks: Defining Features, Data Warehouses and Data Marts, Architectural Types, Overview of The Components, Metadata in The Data Warehouse	3		
	TRENDS IN DATA WAREHOUSING: Continued Growth in Data Warehousing, Significant Trends, Emergence of Standards, Web-Enabled Data Warehouse	2		

	ARCHITECTURAL COMPONENTS: Understanding Data Warehouse Architecture, Distinguishing Characteristics, Architectural Framework, Technical Architecture, Architectural Types	2		
	THE SIGNIFICANT ROLE OF METADATA: Why Metadata Is Important, Metadata Types By Functional Areas, Business Metadata, 12 Books and References: Technical Metadata, How To Provide Metadata	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT: CS

CLASS: SYDS SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

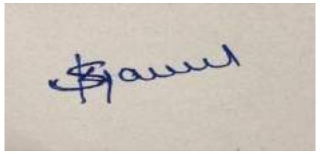
LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 3	**INTRODUCTION TO DATA MINING**: Introduction to Data Mining, Need of Data Mining, What Can Data Mining Do and Not Do? Data Mining Applications, Data Mining Process, Data Mining Techniques, Difference between Data Mining and Machine Learning	4	Data Mining and Data Warehousing : Principles and Practical Techniques- by Parteek Bhatia	BLACK BOARD AND CHALK
	BEGINNING WITH WEKA AND IRIS DATASET IN R: About Weka, Installing Weka, Understanding Fisher‘s Iris Flower Dataset, Preparing the Dataset, Understanding A RFF, Working with a Dataset in Weka, Working with the Iris dataset in R Data Preprocessing: Need for Data Preprocessing, Data Preprocessing Methods	4		
	CLASSIFICATION: Introduction to Classification, Types of Classification,	4		

	Input and Output Attributes, Guidelines for Size and Quality of the Training Dataset, Introduction to the Decision Tree Classifier, Naive Bayes Method, Understanding Metrics to Assess the Quality of Classifier			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12



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Teaching plan sycs sem 3 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data science

CLASS: S.Y.B.Sc.(DS)

SEMESTER: June to September

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS305 **Linear Algebra and Discrete Mathematics** **<u>Unit 1</u>**	Matrices and Gaussian Elimination: ● Introduction, The Geometry of Linear Equations, ● An Example of Gaussian Elimination, ● Matrix Notation and Matrix Multiplication,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication	Black board, chalk and duster

			Fourth Edition	
	• Triangular Factors and Row Exchanges, • Inverses and Transposes, • Special Matrices and Applications	3	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	Vector Spaces: • Vector Spaces and Subspaces, • Solving Ax= 0 and Ax= b,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• Linear Independence, • Basis, and Dimension,	2	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• The Four Fundamental Subspaces, • Graphs and Networks, Linear Transformations	2	Linear Algebra and Its Applications Gilbert Strang Cengage	Black board, chalk and duster

			Publication Fourth Edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra and Discrete** **Mathematics Unit 2**	Orthogonality: ● Orthogonal Vectors and Subspaces, ● Cosines and Projections onto Lines, ● Projections and Least Squares,	4		Black board,chalk and duster
	● Orthogonal Bases ● and Gram-Schmidt, The Fast Fourier Transform	4		Black board,chalk and duster
	Determinants: ● Introduction, ● Properties of the Determinant, ● Formulas for the Determinant,	4		Black board,chalk and duster
	● Applications of Determinants	3		Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra and Discrete Mathematics** **Unit 3**				
	•	3		Black board, chalk and duster
	•	4		Black board, chalk and duster
	•	5		Black board, chalk and duster
	•	3		Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(DS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:1. Understand concept of clustering.

2. To align the Data Mining techniques for analyzing the datasets using tools like Weka, R or Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	CLUSTER ANALYSIS: Introduction to Cluster Analysis, Applications of Cluster Analysis, Desired Features of Clustering, Distance Metrics, Major Clustering Methods/Algorithms, Partitioning Clustering,	4	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	HIERARCHICAL CLUSTERING ALGORITHMS: Web Mining and Search Engines: Introduction, Web Content Mining	4		
	Web Usage Mining, Web Structure Mining, Hyperlink Induced Topic Search algorithm, Introduction to Modern Search Engines, Working of a Search Engine, PageRank Algorithm, Precision and Recall	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	INTRODUCTION TO ASSOCIATION RULE MINING: Defining Association Rule Mining, Representations of Items for Association Mining, The Metrics to Evaluate the Strength of Association Rules, The Naive Algorithm for Finding Association Rules, Approaches for Transaction Database Storage	6	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	THE APRIORI ALGORITHM, Closed and Maximal Itemsets, The Apriori–TID Algorithm for Generating Association Mining Rules, Direct Hashing and Pruning (DHP), Dynamic Itemset Counting (DIC), Mining Frequent Patterns without Candidate Generation (FP Growth)	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: DS

CLASS: SYDS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

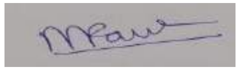
LEARNING OBJECTIVE/S:

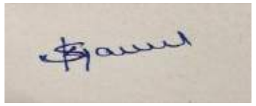
- To learn the essential Python data structures.
- To learn the significant Python implementation of popular data structures
- To learn about various data structure algorithms and design paradigms
- To acquire knowledge of how to create complex data structures.
- To acquire basic understanding of complex data structures such as trees and graphs and their applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit III	**Queues:** List-based queues, Stack-based queues Node-based queues, Application of queues Media player queues	03	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Trees: Terminology, Tree nodes, Tree traversal, Depth-first traversal In-order traversal and infix notation, Pre-order traversal and prefix notation, Post-order traversal and postfix notation, Breadth-first traversal	04		
	Binary trees-Binary search trees, Binary search tree implementation, Binary search tree operations, Finding the minimum and maximum nodes Inserting nodes Deleting nodes, Searching the tree, Benefits of a binary search tree, Balancing trees, Expression trees, Parsing a reverse Polish expression, Heaps, Ternary search tree	05		

DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit IV	**Hashing and Symbol Tables**: Hashing- Perfect hashing functions Hash tables-Storing elements in a hash table, Retrieving elements from the hash table, Testing the hash table, Using [] with the hash table, Non-string keys, Growing a hash table, Open addressing, Chaining, Symbol tables	06	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Graphs and Other Algorithms: Graphs-Directed and undirected graphs, Weighted graphs, Graph representations, Adjacency lists, Adjacency matrices, Graph traversals-Breadth-first traversal, Depth-first search, Other useful graph methods, Priority queues and heaps- Insert operation, Pop Operation, Selection Algorithm	06		
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit V	**Sorting:** Sorting algorithms- Bubble sort algorithms, Insertion sort algorithms, Selection sort algorithms, Quick sort algorithms	04	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Selection Algorithms: Selection by sorting, Randomized selection Quick Select, Deterministic selection-Pivot selection Median of medians, Partitioning step	04		
	Pattern Matching Algorithms: The brute-force algorithm, The RabinKarp algorithm	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





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TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find the eigenvalues and eigenvectors of given matrix.
- Check whether the given matrix is diagonalizable.
- Solve the difference equation using eigenvalues & eigenvectors.
- Solve the differential equation using eigenvalues & eigenvectors.
- Understand the concept of similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS Unit 3 Eigenvalues & Eigenvectors	➢ Finding eigenvalues & eigenvectors ➢ Diagonalisation of a matrix ➢ Difference equations and powers Ak ➢ Differential equations & eAt ➢ Complex matrices ➢ Similarity transformations	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: October-November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the minima, maxima and saddle points of the given function of two variables.
- Test whether the given quadratic form is positive definite.
- Find the singular value decomposition of the given matrix.
- Find the minimum value of the given quadratic form.
- Understand the concept of matrix norm, condition number and spectral norm.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS (Unit 4) Positive definite matrices & Computation with matrices	➢ Minima, Maxima & Saddle points ➢ Tests for positive definiteness ➢ Singular value decomposition ➢ Minimum principles ➢ Finite element method ➢ Matrix norm & condition number	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT 5 PLAN)

NAME OF THE STAFF: SHREYA TANEJA   DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE   SEMESTER: III   MONTH: November-December   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the solution of linear inequalities graphically and numerically.
- Find out the solution of LPP using simplex method.
- Find the dual of the given primal problem.
- Understand various network models.
- Find out the saddle point of the given game problem.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS **(Unit 5)** LPP & Game theory	➢ Linear inequalities ➢ The simplex method ➢ The dual problem ➢ Network models ➢ Game theory	2 3ss 2 2 3	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Shreya

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: DATA SCIENCE

CLASS:S.Y.BSC(D.S) SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:RESEARCH METHODOLOGY

LEARNING OBJECTIVE/S:
The learners will be able to: To impart analytical skill in solving complex problems. To foster the ability to critically think in developing robust, extensible and highly maintainable solutions to simple and complex problems. To explore the unknown and unlock new possibilities in different dimensions of the system. To portray accurately the characteristics of a particular individual, situation or a group under study.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
RESEARCH METHODOLOGY USDS301 Unit-2	**Sampling Design:** Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample?, Random Sample from an Infinite Universe, Complex Random Sampling Designs	4	Research Methodology – Methods and techniques	PowerPoint Presentation

	Measurement and Scaling Techniques: Measurement in Research, Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling, Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques	4	C. R. Kothari New Age International (P) Ltd.,	
	Methods of Data Collection: Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method, (i) Guidelines for Constructing Questionnaire/Schedule (ii) Guidelines for Successful Interviewing (iii) Difference between Survey and Experiment	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		
RESEARCH METHODOLOGY USDS301 Unit-4	**Interpretation of Data and Paper Writing** – Layout of a Research Paper, Journals in Computer Science, Impact factor of Journals, When and where to publish ?, UGC-CARE, Web of Science, SCOPUS, IEEE, ACM, Ethical issues related to publishing, Copyright, Data Privacy, Plagiarism and Self-Plagiarism, Software for detection of Plagiarism. ShodhShudhhi (PDS), smallseotools.com Use of Encyclopedias, Research Guides, Handbook etc., Academic Databases for Computer Science and Information Technology Discipline. Google Scholar, shodhganga, IEEE Xplore, ResearchGate, IDELS, DASH	8	Research Methodology – Methods and techniques C. R. Kothari New Age International (P) Ltd.,	PowerPoint Presentation
	Use of tools / techniques for Research: Chicago, Turabian, MLA and APA Style, Reference Management Software like EndNote, Zotero or Mendeley; Software for paper formatting like LaTeX/MS Office/	8		

	Scrivener/Open Office/Google Doc/DropBox Paper.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		

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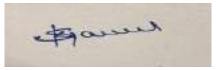

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Yashvant Keshav Patil College of Commerce
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Teaching plan for FYCS sem 1 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data Science

CLASS: Fybsc(DS)

SEMESTER: 1

MONTH: September to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners would be able to

- To understand the use and importance of statistical data by tabulating and implementing sampling methods.
- identify association between the variables as well as computing consistent and inconsistent data.
- compute level of measures and apply as well as interpret data into graphs.
- Apply measure of central tendency to minimize the sum of squared deviation.
- Able to understand the basic assumption behind regression analysis and determine the model is significance as well as able to apply various techniques for the modelling.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**Reference /s**	**Teaching method Ict tool used**
Paper: Statistical Methods **Unit 1**	**Introduction to Statistics and Use in Business:** ➢ Meaning of Statistics as a Science, Importance of Statistics, ➢ Scope of Statistics : In the field of Industry, Biological Sciences,Medical Sciences, Economics Sciences, Social,	**5**	Statistical Methods and introductory text, Medhi J.,New Age International	Black board, chalk and Duster

	Sciences,Management Sciences, Agriculture, Insurance, InformationTechnology, Education and Psychology. ➢ Statistical organizations in India and their functions: CSO, ISI,NSS, IIPS (Devnar, Mumbai), Bureau of Economics andstatistics. ➢ Case Study.		ltd, Second edition	

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	Types of Data and Data Condensation: ➢ Method of sampling: Concept of population and sample. Finite Infinite population ,Notion ofSRS,SRSWOR and SRSWR ➢ Types of Characteristics, Different types of scales: nominal,ordinal, interval and ratio scale. Linear and circular scale. ➢ Types of Data: Primary data, Secondary data, Collection of data and concept of questionnaire and a schedule, Cross-sectional data,time series data, failure data, industrial data, and directional data. ➢ Tabulation. ➢ Dichotomous classification- for two and	4	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	three attributes, Verification for consistency. ➢ Association of attributes: Yule's coefficient of association Q. ➢ Yule's coefficient of Colligation, ➢ Notion of a statistical population: Finite population infinite ➢ population,homogeneous population and heterogeneous population. Notion of sample, random sample and non-random sample.			
	Presentation of Data ➢ Univariate frequency distribution of discrete and continuous variables. ➢ Cumulative frequency distribution and relative frequencydistribution. ➢ Graphical representation of frequency distribution by Histogram,frequency polygon, Cumulative frequency curve. Stem and leafdiagram ➢ Check sheet, Parato diagram	3	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

Unit 2	**Measures of central tendencies** ➢ Concept of central tendency of data. Requirements of good measure ➢ Locational averages: Median, Mode, and Partition Values: Quartiles,Deciles, and	6	Statistical Methods, An n itroductory Text,Medhi J. New Age Internation alLtd. Second Edition	Black board, chalk and Duster

	Percentiles, Box Plot, Percentile ranks ➢ Mathematical averages Arithmetic mean (Simple, weighted mean, combinedmean), Geometricmean, Harmonic mean ➢ Empirical relation between mean, median and mode ➢ Merits and demerits of using different measures &their applicability ➢ Partition Values : Quartiles, Deciles and Percentiles, Box Plot, ➢ Percentile ranks			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

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	Measures of Dispersion, Skewness & Kurtosis ➢ Concept of dispersion. Requirements of good measure. ➢ Absolute and Relative measures of dispersion: Range, Quartile Deviation, Mean absolute deviation, Standard deviation. ➢ Variance and Combined variance, raw moments and central moments and relations between them. Their properties	6	Statistical Methods and introductory text, Medhi J.,New Age International ltd, Second edition	Black board, chalk and Duster

	➢ Concept of Skewness and Kurtosis: Measures of Skewness: KarlPearson's, Bowley's and Coefficient of skewness based on moments. Measure of Kurtosis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lectures

Unit 3	**Mean square deviation:** ➢ **Definition, minimality property of mean square deviation (with proof),** ➢ **Variance and standard deviation: Definition, merits and demerits, effect of change of origin and scale, combined variance (derivation for 2 groups), combined standard deviation, generalization for n groups.**	7	Statistical Methods And introductory Text, Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

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	➢ **Measures of dispersion for comparison: coefficient of range, coefficient of quartile deviation and coefficient of mean deviation,coefficient of variation (C.V.).**	5	Statistical Methods, And introductory Text ,Medhi J. New Age International Ltd. Second Edition	Black board, chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 lecture

SIGNATURE OF TEACHER

SIGNATURE OF H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Avinash Dilip Sonawan DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: September to December ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit I	Internet and the World Wide Web: What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address,	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla. search engine, web saver – apache, IIS, proxy server, HTTP protocol What Is Web Design?: Defining Web Design, Web Design Themes, Learning Web Design	04		

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Web Technology (USDS103) Unit I	User-Centered Design: Usability, Who Are Web Users? Common User Characteristics, Memory, Response and Reaction Times, Dealing with Stimulus, Movement Capabilities, The User's World, General Types of Users, Web Conventions, Accessibility, Building a Usable Site HTML5: Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors.	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
Web Technology (USDS103) Unit II	**HTML5 Page layout and navigation:** Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating graphical navigation bar, creating image map, redirecting to another URL, creating division based layouts: HTML5 semantic tags, creating divisions, creating HTML5 semantic layout, positioning and formatting divisions	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	HTML5 Tables, Forms and Media: Creating tables: creating simple table, specifying the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, changing cell padding, spacing and alignment, creating user forms: 12 creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5, Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page	06	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12

A.D. Sonawane

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VRUNDA VISHAL GHARAT DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2021-2022

LEARNING OBJECTIVE/S:

- Introducing the basic concepts of Internet and web design to learners.
- Providing brief knowledge about HTML5 concepts.
- Giving insight of the Page layout and navigation with HTML5.
- Making students aware about use of Tables, Forms and Media with HTML5.
- Providing knowledge of web page design using CSS. • Teaching data validation using Java Script

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Web Technology (USDS103) Unit III	**Introduction to Style Sheets** : Understanding Styles, Constructing Style Rules, Creating Styles for Nested Tags, Creating Classes and IDs for Applying Styles, Applying Styles to Hyperlinks, Creating and Linking to External Style Sheets **Formatting Text by Using Style Sheets**: Specifying a Font Family, Specifying a Font Size and Color, Applying Bold and Italics, Applying Strikethrough and Underlining, Creating Inline Spans , Adjusting Spacing Between Letters	04	HTML5 Step by Step Faithe Wempen Microsoft Press 2011 Web Design The Complete Reference Thomas Powell TMH 2009	Black board and chalk
	Formatting Paragraphs by Using Style Sheets: Indenting Paragraphs, Applying a Border to a Paragraph, Specifying a Border Style, Setting Border Padding, Specifying Border Width and Color, Formatting Border Sides Individually,	04		

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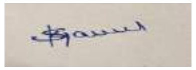
	Setting All Border Attributes at Once, Specifying the Horizontal Alignment of a Paragraph, Specifying Vertical Space within a Paragraph **Displaying Graphics**: Selecting a Graphics Format, Preparing Graphics for Web Use, Inserting Graphics, Arranging Elements on the Page, Controlling Image Size and Padding, Hyperlinking from Graphics, Using Thumbnail Graphics, Including Alternate Text for Graphics, Adding Figure Captions			

Web Technology (USDS103) Unit III	**Java Script:** Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security Core JavaScript (Properties and Methods of Each) : Array, Boolean, Date, Function, Math, Number, Object, String, regExp **Document and its associated objects**: document, document object methods, Link, Area, Anchor, Image, Layer	04	JavaScript 2.0: The Complete Reference Thomas Powell and Fritz Schneider TMH 2 nd 2004	Black board and chalk
	Events and Event Handlers : General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JANHAVI YATIN NAIK DEPARTMENT: DS

CLASS: FYDS SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- To discuss various components of communication, explain how non-verbal communication techniques enhance communication and explain the barriers to communication.
- To discuss various business activities which are essential at workplace. To explain business communication covering the structure and layout of a letter, planning of a letter and use of language.
- To explain the use of agenda and minutes for effective functioning of any organisation.
- To direct the learners' attention to the significance of effective writing and the importance and structure of reports.
- To explain to interpret information ethics (IE) as the branch of the philosophy of information that investigates, in a broad sense, the ethical impact of Information and Communication Technologies (ICTs) on human life and society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS104:Business Communication and Information Ethics **Unit 1**	**Interpretation of Communication** Basics of communication, Non-verbal communication, Barriers to communication	**6**	**Professional Communication by Aruna Koneru**	**Blackboard and chalk** **PPT , Projector**
	Business communication at workplace Letter components and layout, Planning a letter, Process of letter writing	**6**		

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USDS104: Business Communication and Information Ethics Unit 2	**Business communication at workplace** Email communication, Memos and memo reports, Employment communication. Notice, Agenda and minutes of meeting, Brochures.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk PPT , Projector**
USDS104: Business Communication and Information Ethics Unit 3	**Report Writing:** Effective writing, Types of business reports, Structure of reports, Gathering Information	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 4	**Report Writing:** Organisation of material, writing abstracts and summaries, Writing definitions, Visual aids, User Instruction Manual.	**12**	**Business Communication by A. C."Buddy" Krizan, Patricia Merrier, Joyce Logan, Karen Williams**	**Blackboard and chalk**
USDS104: Business Communication and Information Ethics Unit 5	**Information Ethics** Ethics after the information revolution, what is information ethics? The method of abstraction	**12**	**The Ethics of Information by Luciano Floridi**	**Blackboard and chalk**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SNEHA TUSHAR VAZE DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: FYDS SEMESTER: II MONTH: DECEMBER TO APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

- Students should be able to understand the components of environments and the need to conserve it
- Students should be able to know the relationship between each and every organism and identify the problem which the world is facing.
- To select, the appropriate life style to save the life on earth

Unit 3	**Environmental Pollution** Air Pollution, Water Pollution, Soil Pollution, Marine Pollution, Noise Pollution, Thermal Pollution, Solid Waste Management, Hazardous Waste Management, Pollution Prevention, Disaster Management	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**
	Human Population and the Environment Population Growth, Human Rights, Value Education, HIV/AIDS, Environment and Human Health, Family Welfare Programmes, Women and Child Welfare, Role of Information Technology in Environment and Human Health	**6**	**Environmental Studies by Benny Joseph**	**Blackboard and chalk PPT , Projector**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHLESHA DATTARAM GURAV DEPARTMENT: IT

CLASS: FYDS SEMESTER: I MONTH: SEPTEMBER TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

- To learn the Programming fundamentals using Python
- To learn the concepts and usage data types, variables and other basic elements of Python
- To understand operators and control statements in Python
- To learn using arrays and strings in Python.
- To understand IPython architecture for Python.
- To understand data Science Tools
- To learn plotting data using appropriate Python visualization libraries

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Programming (USDS102) Unit I	Introduction to Python Language: Overview, Features of Python, Execution of a Python Program, Innards of Python, Frozen Binaries, Python Interpreter, Comparison of Python with C and Java, Installing Python, Writing & Executing, IDLE	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Data Types, Variables And Other Basic Elements: Comments, Docstrings, Data types-Numeric, Compound, Boolean, Dictionary, Sets, Mapping, Basic Elements of Python, Variables	03		
	Input and Output Operations: Input Function, Output Statements,Command Line Arguments	03		

	Control Statements: Control Statements- Loop Statement, The else Suite, break Statement, continue Statement, pass Statement, assert Statement, return Statement	03		
Introduction to Programming (USDS102) Unit II	Functions: Defining & Calling a Function, Returning Results, Returning Multiple Values, Built-in Functions, Parameters and Arguments, Recursive Functions, Anonymous or Lambda Functions	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Operators: Arithmetic operators, Assignment operators, Unary minus operator, Relational operators, Logical operators, Bitwise operators, Membership operators, Identity operators, Precedence of Operators, Associativity of Operators	03		
	Arrays: Creating Arrays, Indexing and Slicing, Basic Array Operations, Arrays Processing, Mathematical Operations on Array, Aliasing Arrays, Slicing and Indexing in NumPy Arrays, Basic Slicing. Advanced Indexing. Dimensions of Arrays, Attributes of an Array	03		
	Strings: Creating Strings, Functions of Strings, Working with Strings, Length of a String, Indexing & Slicing, Repeating & Concatenation of Strings, Checking Membership, Comparing Strings, Removing Spaces, Finding Substrings, Counting Substrings, Strings are Immutable, Splitting and Joining Strings, Changing Case, Checking Starting and Ending of a String, Sorting & Searching in the Strings, Formatting the Strings, Working with Characters	03		
Introduction to Programming (USDS102) Unit III	Lists and Tuples: Lists, List Functions and Methods, List Operations, Tuples	03	Let Us Python Y. Kanetkar BPB	Black Board and Chalk
	Dictionaries: Creating a Dictionary, Operators in Dictionary, Dictionary Methods, Using for Loop with Dictionaries, Operations on Dictionaries, Ordered Dictionaries	03		

	Regular Expressions: What is a Regular Expression? Sequence Characters in Regular Expressions, Quantifiers in Regular Expressions, Special Characters in Regular Expressions, Using Regular Expression on Files, Retrieving Information from an HTML File	03		
	Date and Time in Python: Date and Time, Date and Time Now, Combining Date and Time, Formatting Dates and Times, Finding Durations using "timedelta", Comparing Two Dates, Sorting Dates, Stopping Execution Temporarily, Knowing the Time taken by a Program, Working with Calendar Module	03		
Introduction to Programming (USDS102) Unit IV	IPython: Beyond Normal Python, Help and Documentation in IPython, Keyboard Shortcuts in the IPython Shell, IPython Magic Commands, Input and Output History, IPython and Shell Commands, Errors and Debugging, Profiling and Timing Code	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk
	Introduction to NumPy: Understanding Data Types in Python, The Basics of NumPy Arrays, Computation on NumPy Arrays: Universal Functions, Aggregations: Min, Max, and Everything In Between, Computation on Arrays: Broadcasting, Comparisons, Masks, and Boolean Logic, Fancy Indexing, Sorting Arrays, Structured Data: NumPy's Structured Arrays	06		
Introduction to Programming (USDS102) Unit V	Data Manipulation with Pandas: Introducing Pandas Objects, Data Indexing and Selection, Operating on Data in Pandas, Handling Missing Data, Hierarchical Indexing, Combining Datasets: Concat and Append, Combining Datasets: Merge and Join, Aggregation and Grouping, Pivot Tables, Vectorized String Operations, Working with	06	Python Data Science Handbook Jake VanderPlas O'Reilly Media	Black Board and Chalk

	Time Series. High-Performance Pandas: eval( ) and query( )			
	Visualization with Matplotlib: Simple Line Plots, Simple Scatter Plots, Visualizing Errors, Density and Contour Plots, Histograms, Binnings, and Density, Customizing Plot Legends, Customizing Colorbars, Multiple Subplots, Text and Annotation, Customizing Ticks, Customizing Matplotlib: Configurations and Stylesheets, Three-Dimensional Plotting in Matplotlib, Geographic Data with Basemap, Visualization with Seaborn	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DORIN REBELLO DEPARTMENT: INFORMATION TECHNOLOGY

CLASS: SYBSc(Data Science) Div:A SEMESTER: III MONTH: JUNE-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to: learn the essential Python data structures; To learn the significant Python implementation of popular data structures; To learn about various data structure algorithms and design paradigms; To acquire knowledge of how to create complex data structures; To acquire basic understanding of complex data structures such as trees and graphs and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper: USDS302 unit:1, Title: Data Structures and Algorithms Using Python	**Python Objects & Object-Oriented Programming**: Goals, Principles, and Patterns, Overview of data types and objects, Classes and object programming, Class Definitions, Inheritance, Data encapsulation and properties, Namespaces and Object-Orientation, Shallow and Deep Copying	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Python Data Types and Strutures: Modules for data structures and algorithms- Collections, Deques, ChainMap objects Counter, Counter objects, Ordered dictionaries defaultdict, Learning about named tuples Arrays.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Principles of Algorithm Design: An introduction to algorithms, Algorithm design paradigms Recursion and backtracking, Backtracking, Divide and conquer - long multiplication The recursive approach Runtime analysis Asymptotic analysis Big O notation, Composing complexity classes Omega notation, Theta notation, Amortized analysis.	4	Hands-On Data Structures andAlgorithms with Python	Blackboard

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Paper: USDS302 unit:2, Title: Data Structures and Algorithms Using Python	**Lists and Pointer Structures**:Arrays-Pointer structures. **Singly linked lists-**Singly linked list class, The append operation, A faster append operation, Getting the size of the list, Improving list traversal, Deleting nodes, List search, Clearing a list	4	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Doubly linked lists-A doubly linked list node Doubly linked list class Append operation The delete operation List search.	3	Hands-On Data Structures andAlgorithms with Python	Blackboard
	Circular lists-Appending elements, Deleting an element in a circular list, Iterating through a circular list **Stacks:** Stack implementation, Push operation, Pop operation, Peek operation, Bracket-matching application,	5	Hands-On Data Structures andAlgorithms with Python	Blackboard

TOTAL NUMBER OF LECTURES ALLOCATED TO THE EACH UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable TrustBhaskar
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Keshav Patil College of Commerce Vidhya
Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEVIKA VAMAN KENI DEPARTMENT: CS CLASS: SYDS

SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 1	THE COMPELLING NEED FOR DATA WAREHOUSING: Escalating Need for Strategic Information, Failures of Past Decision-Support Systems, Operational Versus Decision-Support Systems, Data Warehousing—The Only Viable Solution, Data Warehouse Defined, The Data Warehousing Movement, Evolution of Business Intelligence	3	DATA WAREHOUSING FUNDAMENTALS FOR IT PROFESSIONALS BY- PAULRAJ PONNIAH	BLACK BOARD AND CHALK
	DATA WAREHOUSE: The Building Blocks: Defining Features, Data Warehouses and Data Marts, Architectural Types, Overview of The Components, Metadata in The Data Warehouse	3		
	TRENDS IN DATA WAREHOUSING: Continued Growth in Data Warehousing, Significant Trends, Emergence of Standards, Web-Enabled Data Warehouse	2		

	ARCHITECTURAL COMPONENTS: Understanding Data Warehouse Architecture, Distinguishing Characteristics, Architectural Framework, Technical Architecture, Architectural Types	2		
	THE SIGNIFICANT ROLE OF METADATA: Why Metadata Is Important, Metadata Types By Functional Areas, Business Metadata, 12 Books and References: Technical Metadata, How To Provide Metadata	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA RAJENDRAKUMAR PATIL DEPARTMENT: CS

CLASS: SYDS SEMESTER: SEM-3 MONTH: JUN-SEP ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

- Perform object oriented programming to develop solution to problems demonstrating usage of control structures, modularity, I/O and other standard language constructs.
- Demonstrate adeptness of object oriented programming to develop solution to problem demonstration usage of data abstraction, encapsulation, and inheritance.

PAPER, TITLE,UNIT	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper 4 Data Warehousing and Mining UNIT 3	**INTRODUCTION TO DATA MINING**: Introduction to Data Mining, Need of Data Mining, What Can Data Mining Do and Not Do? Data Mining Applications, Data Mining Process, Data Mining Techniques, Difference between Data Mining and Machine Learning	4	Data Mining and Data Warehousing : Principles and Practical Techniques- by Parteek Bhatia	BLACK BOARD AND CHALK
	BEGINNING WITH WEKA AND IRIS DATASET IN R: About Weka, Installing Weka, Understanding Fisher's Iris Flower Dataset, Preparing the Dataset, Understanding A RFF, Working with a Dataset in Weka, Working with the Iris dataset in R Data Preprocessing: Need for Data Preprocessing, Data Preprocessing Methods	4		
	CLASSIFICATION: Introduction to Classification, Types of Classification,	4		

	Input and Output Attributes, Guidelines for Size and Quality of the Training Dataset, Introduction to the Decision Tree Classifier, Naive Bayes Method, Understanding Metrics to Assess the Quality of Classifier			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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Teaching plan sycs sem 3 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Data science

CLASS: S.Y.B.Sc.(DS)

SEMESTER: June to September

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Appreciate the relevance of linear algebra in the field of computer science.
- Understand the concepts through program implementation
- Instill a computational thinking while learning linear algebra.
- Express clear understanding of the concept of a solution to a system of equations.
- Find eigenvalues and corresponding eigenvectors for a square matrix.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS305 **Linear Algebra and Discrete Mathematics** **<u>Unit 1</u>**	Matrices and Gaussian Elimination: • Introduction, The Geometry of Linear Equations, • An Example of Gaussian Elimination, • Matrix Notation and Matrix Multiplication,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication	Black board, chalk and duster

			Fourth Edition	
	• Triangular Factors and Row Exchanges, • Inverses and Transposes, • Special Matrices and Applications	3	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	Vector Spaces: • Vector Spaces and Subspaces, • Solving Ax= 0 and Ax= b,	4	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• Linear Independence, • Basis, and Dimension,	2	Linear Algebra and Its Applications Gilbert Strang Cengage Publication Fourth Edition	Black board, chalk and duster
	• The Four Fundamental Subspaces, • Graphs and Networks, Linear Transformations	2	Linear Algebra and Its Applications Gilbert Strang Cengage	Black board, chalk and duster

			Publication Fourth Edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra and Discrete Mathematics Unit 2**	Orthogonality: ● Orthogonal Vectors and Subspaces, ● Cosines and Projections onto Lines, ● Projections and Least Squares,	4		Black board,chalk and duster
	● Orthogonal Bases ● and Gram-Schmidt, The Fast Fourier Transform	4		Black board,chalk and duster
	Determinants: ● Introduction, ● Properties of the Determinant, ● Formulas for the Determinant,	4		Black board,chalk and duster
	● Applications of Determinants	3		Black board,chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/ S	TEACHING METHOD/ ICT TOOLS USED
USCS 302 **Linear Algebra and Discrete Mathematics** **Unit 3**				
	•	3		Black board, chalk and duster
	•	4		Black board, chalk and duster
	•	5		Black board, chalk and duster
	•	3		Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti S. Raut** DEPARTMENT: **CS** CLASS: **S.Y.B.Sc.(DS)**

SEMESTER: **III** MONTH: **June - September** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able:1. Understand concept of clustering.
2. To align the Data Mining techniques for analyzing the datasets using tools like Weka, R or Python

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	CLUSTER ANALYSIS: Introduction to Cluster Analysis, Applications of Cluster Analysis, Desired Features of Clustering, Distance Metrics, Major Clustering Methods/Algorithms, Partitioning Clustering,	4	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	HIERARCHICAL CLUSTERING ALGORITHMS: Web Mining and Search Engines: Introduction, Web Content Mining	4		
	Web Usage Mining, Web Structure Mining, Hyperlink Induced Topic Search algorithm, Introduction to Modern Search Engines, Working of a Search Engine, PageRank Algorithm, Precision and Recall	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USDS304 Paper 3 **Data Warehousing and Mining** **UNIT IV**	INTRODUCTION TO ASSOCIATION RULE MINING: Defining Association Rule Mining, Representations of Items for Association Mining, The Metrics to Evaluate the Strength of Association Rules, The Naive Algorithm for Finding Association Rules, Approaches for Transaction Database Storage	6	Data Mining and Data Warehousing : Principles and Practical Techniques, Parteek Bhatia, Cambridge University Press	Microsoft PowerPoint Presentation
	THE APRIORI ALGORITHM, Closed and Maximal Itemsets, The Apriori–TID Algorithm for Generating Association Mining Rules, Direct Hashing and Pruning (DHP), Dynamic Itemset Counting (DIC), Mining Frequent Patterns without Candidate Generation (FP Growth)	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MONIKA MADHUKAR RAUT DEPARTMENT: DS

CLASS: SYDS SEMESTER: III MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

- To learn the essential Python data structures.
- To learn the significant Python implementation of popular data structures
- To learn about various data structure algorithms and design paradigms
- To acquire knowledge of how to create complex data structures.
- To acquire basic understanding of complex data structures such as trees and graphs and their applications

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit III	**Queues:** List-based queues, Stack-based queues Node-based queues, Application of queues Media player queues	03	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Trees: Terminology, Tree nodes, Tree traversal, Depth-first traversal In-order traversal and infix notation, Pre-order traversal and prefix notation, Post-order traversal and postfix notation, Breadth-first traversal	04		
	Binary trees-Binary search trees, Binary search tree implementation, Binary search tree operations, Finding the minimum and maximum nodes Inserting nodes Deleting nodes, Searching the tree, Benefits of a binary search tree, Balancing trees, Expression trees, Parsing a reverse Polish expression, Heaps, Ternary search tree	05		

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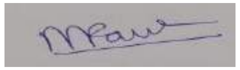
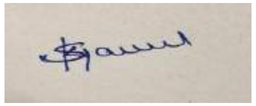
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit IV	**Hashing and Symbol Tables**: Hashing- Perfect hashing functions Hash tables-Storing elements in a hash table, Retrieving elements from the hash table, Testing the hash table, Using [] with the hash table, Non-string keys, Growing a hash table, Open addressing, Chaining, Symbol tables	06	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Graphs and Other Algorithms: Graphs-Directed and undirected graphs, Weighted graphs, Graph representations, Adjacency lists, Adjacency matrices, Graph traversals-Breadth-first traversal, Depth-first search, Other useful graph methods, Priority queues and heaps- Insert operation, Pop Operation, Selection Algorithm	06		
DATA STRUCTURES AND ALGORITHMS USING PYTHON (USDS302) Unit V	**Sorting:** Sorting algorithms- Bubble sort algorithms, Insertion sort algorithms, Selection sort algorithms, Quick sort algorithms	04	Hands-On Data Structures And Algorithms with Python Basant Agarwal, Benjamin Baka Packt Publishing 2nd 2018	Black Board and Chalk
	Selection Algorithms: Selection by sorting, Randomized selection Quick Select, Deterministic selection-Pivot selection Median of medians, Partitioning step	04		
	Pattern Matching Algorithms: The brute-force algorithm, The RabinKarp algorithm	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find the eigenvalues and eigenvectors of given matrix.
- Check whether the given matrix is diagonalizable.
- Solve the difference equation using eigenvalues & eigenvectors.
- Solve the differential equation using eigenvalues & eigenvectors.
- Understand the concept of similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS Unit 3 Eigenvalues & Eigenvectors	➢ Finding eigenvalues & eigenvectors ➢ Diagonalisation of a matrix ➢ Difference equations and powers Ak ➢ Differential equations & eAt ➢ Complex matrices ➢ Similarity transformations	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: October-November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the minima, maxima and saddle points of the given function of two variables.
- Test whether the given quadratic form is positive definite.
- Find the singular value decomposition of the given matrix.
- Find the minimum value of the given quadratic form.
- Understand the concept of matrix norm, condition number and spectral norm.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS (Unit 4) Positive definite matrices & Computation with matrices	➢ Minima, Maxima & Saddle points ➢ Tests for positive definiteness ➢ Singular value decomposition ➢ Minimum principles ➢ Finite element method ➢ Matrix norm & condition number	2 2 2 2 2 2	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT 5 PLAN)

NAME OF THE STAFF: SHREYA TANEJA DEPARTMENT: MATHEMATICS

CLASS: SY B.SC DATA SCIENCE SEMESTER: III MONTH: November-December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Find out the solution of linear inequalities graphically and numerically.
- Find out the solution of LPP using simplex method.
- Find the dual of the given primal problem.
- Understand various network models.
- Find out the saddle point of the given game problem.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LINEAR ALGEBRA&DISCRETE MATHEMATICS **(Unit 5)** LPP & Game theory	➢ Linear inequalities ➢ The simplex method ➢ The dual problem ➢ Network models ➢ Game theory	2 3ss 2 2 3	LINEAR ALGEBRA & ITS APPLICATIONS (Gilbert Strang)	LECTUREMETHOD, DISCUSSION METHOD, PROBLEM SOLVING METHOD TEACHING AIDS: Blackboard, chalk, duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NESSIE ROBERT COLACO DEPARTMENT: DATA SCIENCE

CLASS:S.Y.BSC(D.S) SEMESTER: **III** MONTH:JULY-OCT ACADEMIC YEAR: 2022-2023

SUBJECT:RESEARCH METHODOLOGY

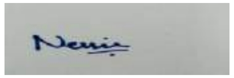
LEARNING OBJECTIVE/S:

The learners will be able to: To impart analytical skill in solving complex problems. To foster the ability to critically think in developing robust, extensible and highly maintainable solutions to simple and complex problems. To explore the unknown and unlock new possibilities in different dimensions of the system. To portray accurately the characteristics of a particular individual, situation or a group under study.

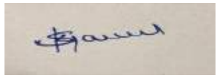
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
RESEARCH METHODOLOGY USDS301 Unit-2	**Sampling Design:** Census and Sample Survey, Implications of a Sample Design, Steps in Sampling Design, Criteria of Selecting a Sampling Procedure, Characteristics of a Good Sample Design, Different Types of Sample Designs, How to Select a Random Sample?, Random Sample from an Infinite Universe, Complex Random Sampling Designs	4	Research Methodology – Methods and techniques	PowerPoint Presentation

	Measurement and Scaling Techniques: Measurement in Research, Measurement Scales, Sources of Error in Measurement, Tests of Sound Measurement, Technique of Developing Measurement Tools, Scaling, Meaning of Scaling, Scale Classification Bases, Important Scaling Techniques, Scale Construction Techniques	4	C. R. Kothari New Age International (P) Ltd.,	
	Methods of Data Collection: Collection of Primary Data, Observation Method, Interview Method, Collection of Data through Questionnaires, Collection of Data through Schedules, Difference between Questionnaires and Schedules, Some Other Methods of Data Collection, Collection of Secondary Data, Selection of Appropriate Method for Data Collection, Case Study Method, (i) Guidelines for Constructing Questionnaire/Schedule (ii) Guidelines for Successful Interviewing (iii) Difference between Survey and Experiment	5		
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**13**		
RESEARCH METHODOLOGY USDS301 Unit-4	**Interpretation of Data and Paper Writing** – Layout of a Research Paper, Journals in Computer Science, Impact factor of Journals, When and where to publish ?, UGC-CARE, Web of Science, SCOPUS, IEEE, ACM, Ethical issues related to publishing, Copyright, Data Privacy, Plagiarism and Self-Plagiarism, Software for detection of Plagiarism. ShodhShudhhi (PDS), smallseotools.com Use of Encyclopedias, Research Guides, Handbook etc., Academic Databases for Computer Science and Information Technology Discipline. Google Scholar, shodhganga, IEEE Xplore, ResearchGate, IDELS, DASH	8	Research Methodology – Methods and techniques C. R. Kothari New Age International (P) Ltd.,	PowerPoint Presentation
	Use of tools / techniques for Research: Chicago, Turabian, MLA and APA Style, Reference Management Software like EndNote, Zotero or Mendeley; Software for paper formatting like LaTeX/MS Office/	8		

	Scrivener/Open Office/Google Doc/DropBox Paper.			
	TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:	**16**		



SIGNATURE OF THE STAFF



SIGNATURE OF THE H.O.D.

DEPARTMENT OF FILM, TELEVISION AND NEW MEDIA PRODUCTION
5.3. TEACHING PLAN (UNIT PLAN) 2022-23

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **EFFECTIVE COMMUNICATION SKILLS**

LEARNING OBJECTIVE/S: To prepare students in the production aspects of Film Television & New Media, as required by the present media environment all across globe. To empower the students in the production and managerial aspects of the media business with due emphasis on latest production techniques, along with marketing and branding management of various media products and associated services. To develop creative temperament and mindset needed in the content production segment of media industry. To provide an active industry interface by way of co-learning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Fundamentals of Communication: Developing reading & writing skills (Marathi, Hindi and English), Editing & Summarizing (Marathi, Hindi and English), Oral Communication (Marathi, Hindi and English)	3	Textbooks: 1. Crucial Conversations: Tools for Talking When Stakes are High , by Kerry Patterson. 2. Presenting to Win: The Art of Telling Your Story, by Jerry Weissman. Reference Books: 1. Verbal Judo: The Gentle Art of Persuasion, by George J. Thompson. 2. Write to the Top: Writing for Corporate Success,	Theory, project and assignments PPT etc
Unit- II	Enhanced Communication Skills Development: Enhancing communication skills – verbal, Enhancing communication skills - non-verbal, Body type- posture- body language reading, Analysing body language signals and meanings	3		Theory, project and assignments PPT etc
Unit- III	Psychology of communication:	3		Theory, project and

	Gestures- expressions - facial language, eye contact, shake hands, sitting posture, Maintaining comfort distance from people, mirroring, Dressing sense, corporate dressing, formal, semi formal, casual, dressing for various occasions & events, Understanding personalities - auditory / visuals / kinesthetic, eye movement, facial expressions, emotions, smile		by Deborah Dumaine.	assignments PPT etc
Unit- IV	Personality Development: Verbal communication, voice training, speech, clarity, grammar speed, volume, enunciation, pronunciation, ends of sentences, humour, pauses, Stress management, breathing pattern, mind psyching, right attitude, understanding your limitations and strengths, Table manners & etiquettes correct use of spoon knife, etc, Choosing the right accessories i.e shoes, handbags, jewellery, etc.	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **GAURI PATIL**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTRODUCTION TO HISTORY OF ART/ STORYTELLING THROUGH OTHER FORMS OF ART**

LEARNING OBJECTIVE/S: To understand the basics and genres of Music, dance and theatre.
To learn the basics of various acting schools and the art of drama.
To learn the evolution of visual techniques from painting to cinema.
To learn the basic relationship between music and dance in relation to Film making.
Students should be exposed to the canonical text of Natya shastra from where all the traditional performing arts have emerged.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Music : Genres of Music, Introduction to Contemporary Music (Hindi, Regional & POP), Music Directors & Composers, Use of Folk music in Indian Cinema	3	Textbooks: 1) Natya Shastra by Bharata Muni. 2) Melodrama and Popular Culture: Ira Bhaskar. 3) History of Art – Bernard.S. Myers, Trawin Copplestone. 4) Framing Film- Cinema and the Visual Arts, EDITED BY STEVEN ALLEN AND LAURA HUBNER. Reference Books: 1. Dancing: The Pleasure, Power, and Art of Movement; by Gerald Jonas. Harry N. Abrams in association with	Theory, project and assignments PPT etc
Unit- II	Genres of Dance – Understanding storytelling through Folk Dance & Contemporary Dance, Role of Dance in Hindi Cinema	3		Theory, project and assignments PPT etc
Unit- III	The development of theatre, Acting Schools, Make-up, Managing Play, Study of one English and one Hindi or regional play. Influence of theatre on cinema.	3		Theory, project and assignments PPT etc
Unit- IV	1. European Paintings and Painters- A brief overview starting from the renaissance to modern painters. Idea of Perspective coming into painting and changing	3		Theory, project and assignments PPT etc

	the way we perceive the world 2. Indian Paintings & Painters- A look at the rich historical tradition of Indian PaintingsMiniature Paintings to Modern Painters. Difference between the formal aspects of Painting & Cinema. Exploring the idea of time and space in painting in relation to cinema 3. Important Movements- Analysing the important movements that have taken place in postcolonial India in painting to the contemporary scenario.		Thirteen/WNET 1992. 2. History of Dance: An Interactive Arts Approach; by Gayle Kassing.	

NAME OF THE STAFF: **SAMEER RANE**

DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INITIATION TO LITERATURE & CREATIVE WRITING**

LEARNING OBJECTIVE/S: To introduce basic tenets of Indian literature including regional literature
To introduce and appreciate various forms of literature (Novel, Poetry, Drama, Essay)
To help build skills for creative writing
To help understand the structure of Story, poetry and drama
To introduce writing for internet

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Introduction to Indian Writers – Hindi/Marathi/Urdu & other regional languages: History of Indian literature, prominent writes, important works, cultural significance.	3	Textbooks: 1.) A Concise History of Indian Literature in English by Arvind Mehrotra. 2) The Creative Writing Course book: Forty Authors Share Advice and Exercises for Fiction and Poetry. 3) Creative Writing By Adele Ramet. 4) Creative Writing for People Who Can't Not Write By Kathryn Lindskoog. Reference Books: 1. Creative Writing: A Workbook with Readings By Linda Anderson. 2. Teaching Creative Writing By Graeme Harper. 3. The Everything Creative Writing	Theory, project and assignments PPT etc
Unit- II	A Brief Introduction to Creative Writing: What is creative writing, various forms of writing, various form of writing styles, how to build creative writing skills.	3		Theory, project and assignments PPT etc
Unit- III	Formal structure of the short story: Various forms of writing styles, Genres of story, how to develop an engaging idea, Prominent writers, Pick your style.	3		Theory, project and assignments PPT etc
Unit- IV	Formal aspects of Poetry: Elements of poetry, types of Poetry, Difference between various styles, Famous poets and their works, Study of the Epic Ballad - Mahabharata.	3		Theory, project and assignments PPT etc

			Book By Wendy Burt-Thomas. 4. The Soul of Creative Writing By Richard Goodman, Goodman, Chong.	
Unit- V	Formal aspects of Drama: Structure of drama, one act-two act-three act play, Characterization, Freytag's triangle, Subject specific drama	3		Theory, project and assignments PPT etc
Unit- VI	Writing for the internet: How internet writing is different from conventional writing, Blogging, Reputation management, Development of Blogs, writing for social media, writing for SEO & SMO	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **K. SUDHESH**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF PHOTOGRAPHY**

LEARNING OBJECTIVE/S: To learn the basics of art of Photography.
To understand the basic intricacies involved in taking a photograph.
To understand what makes a good picture.
To develop basic photographic sense and knowledge.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Development of Photography over the years: Brief History of Photography, early photography methods, switch from film to digital, difference between film and digital photography, formats of images in digital.	3	Textbooks: 1. The Art of Photography; by Bruce Barnbaum. 2. Creative Nature & Outdoor Photography; Brenda Tharp. 3. Chasing the Light by Ibarionex Perello. Reference Books: 1. The Camera by Larry Hills. 2. The Creative Black Book. 3. The Print by Ansel Adams, Robert Baker. 4. 500 poses for Photographing Women by Michelle Perkins. 5. Creative Landscapes: Digital Photography Tips & Techniques by Author: Davis, Harold.	Theory, Practical project and assignments PPT etc
Unit- II	Cameras & Techniques: Types of camera, film cameras V/S digital cameras, lenses and their importance, Story Design and Development, Laws of Composition, Gestalt Law and Visual Perception, Semiotic photography.	3		Theory, Practical project and assignments PPT etc
Unit- III	Lighting - Theory & practice: Sources of Lighting, 2 point lighting, 3 point lighting, creating contrast, outdoor natural lighting, related accessories for lighting.	3		Theory, Practical project and assignments PPT etc
Unit- IV	Post production of Photos, Digital Image Editing – Photoshop: Processing of Raw images, Introduction to	3		Theory, Practical project and

	Adobe Photoshop and image ready software, how to enhance the photo digitally.			assignments PPT etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **FILM APPRECIATION – GENRES**

LEARNING OBJECTIVE/S: What is cinema, Film theory – form and function, Film analysis, Auteur Theory,
effect of auteur, Contributions of D W, Griffith, Alfred Hitchcock, Jean Du Godard, Digital Aesthetics, Music and choreography, film genre.
Cinema and society, History of Cinema, Hollywood cinema, early cinema and film form
the studio system, rise and decline of the studio system.
Indian Cinema
History of Indian cinema, history of regional cinema, legends of Indian cinema, Hindi film industry, the Hindi film industry, music and choreography in Indian cinema, contemporary cinema

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	What is cinema, Film theory – form and function, Film analysis, Auteur Theory, effect of auteur, Contributions of D W, Griffith, Alfred Hitchcock, Jean Du Godard	3	Textbooks : 1) The Oxford History of World Cinema. 2) The Cinematic ImagiNation : Indian Popular Films as Social History by Jyotika Virdi. 3) History of Indian Cinema by Renu Saran.	Theory, project and assignments PPT etc
Unit- II	Music and choreography, film genre. Cinema and society, History of Cinema, Hollywood cinema, early cinema and film form the studio system, rise and decline of the studio system.	3		Theory, project and assignments PPT etc
Unit- III	History of Indian cinema, history of regional cinema,	3		Theory, project and assignments

	legends of Indian cinema, Hindi film industry, the Hindi film industry			PPT etc
Unit- IV	music and choreography in Indian cinema, contemporary cinema	3		Theory, project and assignments PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **GRAPHIC DESIGNING (PHOTOSHOP, ILLUSTRATOR, ETC.)**

LEARNING OBJECTIVE/S: The learners are exposed to the industry of graphic design. The domain of skills and tools is largely devoted to learning graphic reproduction methods using both modern, that is electronic,
as well as old school techniques. These inputs enable learners to solve simple problems of visual communication related to corporate identity or social communication. Learners use software like Adobe Photoshop and Adobe Illustrator.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	COLOUR THEORY : Colour psychology, Colour schemes, Colour wheel, Colour combination, Hue.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- II	PERSPECTIVE STUDY : 1-point perspective, 2-point perspective, 3-point perspective, Mixed perspective.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- III	STILL LIFE : Sketching & rendering, Light study, Photography.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- IV	TEXTURE STUDY : Texture creation, mixed media, Water/Pastel painting.	1		Theory, Software (Adobe illustration, photoshop) project and assignments

				PPT etc
Unit- V	PORTRAIT PAINTING : Portrait Caricature, Cartoon.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit-VI	PHOTOSHOP : Basic tools in Photoshop, Photo editing, Colour correction.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- VII	ILLUSTRATOR : Basic tools in Illustrator, Vector graphics, Graphics design.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- VIII	COMIC BOOKS : Understanding storyboards, Styles of contemporary comics, Colour tones.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- IX	COMPOSITION : Basic composition skills, Rule of thirds, Understanding of subject and its relation to light and depth of field, Application in comic books.	1		Theory, Software (Adobe illustration, photoshop) project and assignments PPT etc
Unit- X	TYPOGRAPHY : Understanding of typos & fonts, Application of	1		Theory, Software (Adobe illustration, photoshop)

	appropriate typos on art works.			project and assignments PPT etc

NAME OF THE STAFF: **SALONI AKIWATE, JAVED SAYYED**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **I**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF POST PRODUCTION**

LEARNING OBJECTIVE/S: An editor's job is to decide, 24/25/30 times a second, where the audience needs to be. Do we
stay in a shot or transition to another, and if so, what shot and how do we get there? Working side-by-side with the director to craft the movie that ultimately hits the screen – or your phone – editing is really about manipulating the audience, in the best possible way, all in the service of storytelling.
In this class, we will study terminology and concepts, learning both the rules and how to break them, as we look at the aesthetics choices and the technological workflow for both picture and sound editing. We will examine the historical role of editing, from the earliest silent film through the digital revolution that has transformed moviemaking today.
INTRO TO EDITING THEORY
Introduction to the history of film editing. Lumiere Brothers, Thomas Edison, Edwin Porter, DW Griffith); the manipulation of editing; Lev Kuleshov's experiment; the language of cinema;
introduction to the editor as storyteller and understanding the narrative structure.
INTRO TO PREMIERE PRO
Screening of Examples. The Premiere Pro interface features and functions, how to import and organize footage, basic editing techniques
EDITING EXERCISE
Watch the work of a Master Editor, Basic Production techniques, Practicing/Reviewing skills
PROJECT: Interview and Film a classmate telling a story for 10 minutes or talking about something they're excited about. Edit together a two minute version of this.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Effective Editing Bird's-eye view of the modern process of editing, Setting Up for Editing Efficient editing habits to work faster, Thinking creatively. Efficient workflow, Configure factory-standard systems, Optimal media management from ingest through to	4	Grammar of the Edit Roy Thompson, Christopher J. Bowen SUGGESTED TEXTS: Film Art: An Introduction, David Bordwell and Kristin Thompson The Invisible Cut: How Editors Make Movie Magic, Bobbie O'Steen	Theory, Software (Adobe Premiere pro) project and assignments PPT etc

<table>
<tr><td></td><td>final output. Non Linear

Editing Concepts Interface of NLE system, The Three-Point Edit, Additional Edits</td><td></td><td rowspan="3">Cut By Cut: Editing Your Film or Video, Gael Chandler
In the Blink of an Eye: A Perspective on Film Editing, Walter Murch
The History of Film Editing, Karel Reisz, Gavin Miller
On Film Editing, Edward Dmytrk
Film Editing: Great Cuts Every Filmmaker Should Know, Gael Chandler
First Cut: Conversations with Film Editors, Gabriella Oldham</td><td></td></tr>
<tr><td>Unit- II</td><td>Working in the Timeline, Transitions, Keyframing, Filters, Ingesting</td><td>4</td><td>Theory, Software (Adobe Premiere pro) project and assignments

PPT etc</td></tr>
<tr><td>Unit- III</td><td>Compositing, Color Correction, Audio, Titling, Review and Look Forward</td><td>4</td><td>Theory, Software (Adobe Premiere pro) project and assignments

PPT etc</td></tr>
</table>

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **HISTORY OF NON- FICTION FILM**

LEARNING OBJECTIVE/S: This course explores the history and theory of non-fiction film and video, with an emphasis on
work that falls under the rubric of "documentary."
Documentary is a unique form of non-fiction moving image media that claims a special relationship to reality and truth. Through screenings, readings and class discussion, we will explore such questions as:
• How does documentary relate to narrative fiction filmmaking? To other non-fiction forms of television like reality TV or news reports?
• How "real" are documentary representations, and how much does it matter?
• What are some different formal approaches documentary, and how does each mediate the representation of real life it offers?
• How has documentary image-making changed over time? What can we learn from this history that is relevant to media-making today?
• What are the particular ethics of representing others in a medium like video or film?
• What responsibility do documentarians have to their subjects, to the form, and to society at large?
• How do people watch documentaries, and what is the impact of these films on the world they aim to represent?
Be familiar with efforts to create more democratic systems of media production and distribution.
Learn how to watch earlier films both as an audience THEN (with understanding of the film's social, cultural, historical context), and NOW (with understanding of your own future goals and
with critical, analytical eyes to study history).
Be able to think – and write — critically about non-fiction media.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Screen and analyze a wide range of documentaries, exploring the genre as narrative, journalism, propaganda, rhetoric, activism, diary, art, archive, and entertainment. Course Objectives	4	The texts for this class Documentary: A History of the Non-Fiction Film (2nd Edition) by Erik Barnouw (available at Shakespeare and Co) and Crafting Truth: Documentary Form and	Theory, project and assignments, Screenings (T.V.) PPT etc

	By the end of the semester, you should: Be familiar with key periods in the history of non-fiction film and video from 1895 to the present. Be able to recognize and write about various forms and conventions of documentary storytelling, including the basic grammar of documentary moving images.		Meaning, by Louise Spence and Vinicius Navarro (available at Shakespeare and Co.). Additional readings will be available through e-res. As some readings will be accessed electronically, please bring either a printed version of the article (preferred) OR a digital version of the article to class.	
	Explore central questions surrounding the representation of reality and truth, including voice, authority, evidence and point of view. Explore key issues in the ethics of documentary representation, including maker-subject relationships, informed consent, fairness, and evidence.	4		Theory, project and assignments, Screenings (T.V.) PPT etc
2	Be familiar with efforts to create more democratic systems of media production and distribution. Learn how to watch earlier films both as an audience THEN	4		Theory, project and assignments, Screenings (T.V.) PPT etc

	(with understanding of the film's social, cultural, historical context), and NOW (with understanding of your own future goals and with critical, analytical eyes to study history).			
3	Be able to think – and write — critically about non-fiction media.			Theory, project and assignments, Screenings (T.V.) PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **WRITING FOR VISUAL MEDIA**

LEARNING OBJECTIVE/S: To understand the basic structure of screenplay
To introduce to the basic skills for screen writing
To understand the intricacies of screen writing
To learn the build characters and write meaning full dialogues

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Preparing to Think Visually: Diving In to the Screenwriter's Mind, Approaching Screenwriting as a Craft, Breaking Down the Elements of a Story, Unpacking Your Idea	3	Textbooks: 1. How not to write a screenplay: 101 common mistakes most screenwriters make by Denny Martin Flinn 2. Screen Adaptation: A Scriptwriting Handbook by Kenneth Portnoy 3. Screenplay: The Foundations Of Screenwriting By Syd Field Reference Books: 1. The Screenwriter's Bible By David Trottier 2. The Bare Bones Book of Screenwriting: The Definitive Beginner's Guide to ... By J. T. Clark 3. Screenwriting for a Global Market: Selling Your Scripts from Hollywood to ... By Andrew Horton	Theory, project and assignments, PPT etc
Unit- II	Structure of Story & Screenplay: Plot Part I: Beginnings, Plot Part II: Middles, Plot Part III: Endings	3		Theory, project and assignments, PPT etc
Unit- III	Dynamics of Characterization: Character Building, Constructing Dynamic Dialogues, Non – traditional Film	3		Theory, project and assignments, PPT etc
Unit- IV	Finalizing the Script: Maintaining an Audience's Trust, Turning Your Story into a Script, Take Two: Rewriting Your Script, Adaptation and Collaboration: Two	3		Theory, project and assignments, PPT etc

	Alternate Ways to Work		4. Screenwriting For Dummies By Laura Schellhardt 5. Screenwriting: The Sequence Approach By Paul Joseph Gulino 6. The Tools of Screenwriting By David Howard, Edward Mabley 7. The Art of Screenwriting: An A to Z Guide to Writing a Successful Screenplay By William Packard 8. Writing the Character-Centered Screenplay By Andrew Horton	

NAME OF THE STAFF: **MAYUR PATEL**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **IMPORTANCE OF SOUND AND SOUND SFX**

LEARNING OBJECTIVE/S: To learn about the basic of sound |To understand the nature of sound and recording devices |
To learn the basics of sync sound, mixing console, analog v/s digital workflow | To understand the need for sound and importance of sound in film | To learn to record a song

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Basics of Sound: Nature of acoustical waves; concepts of amplitude and frequency -wavelength and harmonics. Psycho-acoustics: Nature of hearing and perception of sound, including concepts of pitch, loudness, and timbre; the precedence effect; localization in rooms; equal loudness contours; and other mysteries of hearing. Principles of Stereophony	2	Textbooks: 1. Pro Tools 9: Music Production, Recording, Editing and Mixing By Mike Collins 2. Pro Tools All-in-One Desk Reference For Dummies By Jeff Strong 3. Sound for Film and Television By Tomlinson Holman Reference Books: 1. Sound For Digital Video By Tomlinson Holman 2. Producing for TV And Video: A Real-world Approach By Cathrine Kellison 3. Sound for picture: an inside look at audio production for film and television By Jeff Forlenza, Terri Stone 4. Audio in Media By Stanley R. Alten 5. Master Handbook of	Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- II	Sound for Film and Video: The sound track – its importance in an AV medium, Different elements of a sound track, Explanation of how sound is put to the film	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc

Unit- III	Sync Sound: The size of the role sound should play in your film will vary depending on your professor's requests, but when it comes to the technical side of things, you are at least required to know how to achieve synchronized sound and picture with film. Interconnectivity of Analog & Digital Equipment: Basic analog connectors, cabling, patch – bay, interconnectivity between various recording studio equipment. Various Digital interconnects and their sockets on the digital equipment. Microphones Types: Dynamic, Condenser, Ribbon, Polar Pattern, Sensitivity. Microphone designs for special applications Acoustics I (Fundamentals): The behavior of sound in outdoors and in closed spaces; Absorption, reflection, diffraction, refraction, reverberation.	2	AcousticsByF.Alton Everest 6. Modern Recording Techniques By David Miles Huber 7. Mastering Audio By Bob Katz 8. Mixing Audio By Roey Izhaki 9. Practical Recording Techniques By Jenny Bartlett 10. Critical Listening Skills for Audio Professionals By F.Alton Everest 11. The Audible Past By Jonathan Sterne	Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc

Unit- IV	The signal flow and various auxiliary systems. Digital Audio: Analog to Digital to Analog conversion. Sampling Frequency, Bit Rates. Problems in digital audio. Different digital media, Standard digital recording & mastering formats. Audio file formats, storage mediums – optical, magnetic, Jitter etc. Computers in Audio: Different platforms – different operating systems, Configuration of a PC for sound recording. Mother Boards, Processor, Sound Card, Graphic card, Monitors Recorders: Analog, Digital, Tape Based & Tapeless. Digital Audio Workstations (DAW's)	3		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- V	– Film Showcase: Case studies of famous Indian as well as foreign films	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- VI	Microphone Techniques: Placement, Applications, Proximity effects	2		Theory, project and assignments, Screenings (T.V.) PPT, Protool and

	etc. microphones and placement techniques for stereo recording. Monitoring Systems: Active & Passive types, Domestic and professional listening environment, Stereo and surround monitoring.			Audacity software etc
Unit- VII	The Production Process of a Song: Music Basics. – Types of Music, Concepts of Melody, Harmony, Rhythm & counter melody etc. Format of a song. Preproduction, Tracking, Overdubbing, Editing, Mixing and Mastering. Processors: Theory of Tonal, Dynamic & Spatial processors. Equalizers – types and their application, Compressors & Limiters - theory and application, Effects processors - Reverberation and Delay devices and their plug in counterparts.	3		Theory, project and assignments, Screenings (T.V.) PPT, Protool and Audacity software etc
Unit- VIII	Location sound , Radio mics - uses and potential	3		Theory, project and assignments, Screenings

	difficulties. Boom operation for sync sound, Hands-on training in location sound recording for video. Nuendo Basic: Basic principles, understanding the process from initial set up to completion of a project. To set up for a vocal/instruments dub. Hands-on training - You will share a Nuendo workstation during the class. Principles of Mixing: The basic techniques of mixing and the fundamental approach. The Building Blocks of Mixing Setting the sound stage, and the sonic implications of panning and of placing instruments at varying distances from the listener; Consideration of different approaches to getting desired results from EQ; A comprehensive review of the uses of dynamic processor; on Individual channels and Mix master. Finishing a mix with automation.			(T.V.) PPT, Protool and Audacity software etc

	"Mixing in the box." And “Mixing through the board.” Production of the Sound Track for the student project film: Discussing sound design strategy with the director of the film at pre production stage. Attending film sync shoots. Video File formats, Acquiring picture for post production from edit suite. Dubbing the dialogues wherever necessary, Selecting SFX and BG music from the library, recording Foley and music as per the demand of the script. Mixing the final track. Export it to the editor, supervise the final assembly of the film.			

NAME OF THE STAFF: **VIRAJ SHINDE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF CINEMATOGRAPHY-1**

LEARNING OBJECTIVE/S: To understand the importance of cinematography in film making | To enhance the basic knowledge about lighting and its use | To understand various equipment's required for various form of lighting | To understand the basics of various camera, lenses and digital cinematography

<table>
<tr><th>PAPER, UNIT, TITLE</th><th>SUBTOPICS</th><th>NO OF LECTURES

ALLOTTED</th><th>REFERENCE/S</th><th>TEACHING METHOD/ ICT TOOLS USED</th></tr>
<tr><td>Unit- I</td><td>Power of a Picture:
Power of a still picture | Shooting a good Still picture | Composition-Framing | Understanding & Use of color | Capturing the Drama | Black and white Photography;</td><td>4</td><td rowspan="2">Textbooks:
1. Camera Terms and Concepts by David Elkins
2. The Camera Assistant by Doug Hart
3. Motion Picture Camera and Lighting Equipment by David Samuelson

Reference Books:
1. Motion Picture Camera Techniques by David Samuelson
2. The 16mm Camera Book by Douglas Underdahl
3. The Hands On Manual for Cinematographers by David Samuelson
4. The Professional Lighting Handbook by Verne Carlson
5. The Filmmakers Pocket Reference by Blain Brown</td><td>Theory, project and assignments, Screenings (T.V.) PPT, etc</td></tr>
<tr><td>Unit- II</td><td>Light: Role of light | Lighting techniques | Concept of lighting various planes | Understanding Various types: Tungsten lamps, Cool Lights, HMI, Cyclorama/background lights, Soft Box lights. | Use of cutter stand, black cloth and Camera filters | barn doors | use of reflectors | Three point lighting | Ratio lighting: 1:2, 1:3, 1:4 | Creating various Background patterns and types | Lighting – Situations | Studio lighting for three cameras set up: Talk Show, Game Show</td><td>4</td><td>Theory, project and assignments, Screenings (T.V.) PPT, etc</td></tr>
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	| Available day light situations | Shooting for Documentary style | Face lighting. Key, fill, back light | Depth of field Exercise | High key lighting | Low key lighting;		6. American Cinematographer ASC Manual 47. The Zone System for Photographers by Carson Graves 8. Cinematography: Screen craft by Peter Ettedgui 9. Contemporary Cinematographers- On Their Art by Pauline Rodgers 10. Operating Cinematography for Film and Video by William Hines 11. Cinematography-A Guide for Filmmakers and Film Teachers by Kris Mankiewicz 12. Film Lighting: Talks with Hollywood's Cinematographers and Gaffers by Kris Malkiewicz 13. The Five C's of Cinematography: Motion Picture Filming Techniques by Joseph V. Mascali 14. The Art of the Cinematographer: A Survey and Interviews with Five Masters by Leonard Maltin 15. Anton Wilson's Cinema Workshop by Anton Wilson 16. Image Control- Motion Picture and Video Camera Filters and Lab	
Unit- III	–Lenses: Type of Lenses | Power of Lenses | Understanding the shot requirement and usage of a lens | Idea of perspective: Depth Of Field, Depth of focus, Critical understanding of Fixed Lens Vs. Zoom Lens | Focus pulling | 18% grey card | Metering | Color temperature meter;	3		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	Movements: Basic grammar of shots | Primary Camera Movement: Pan, Tilt, Zoom, Character Movement | Usage and need of Track and trolly, Crane, jimy gip, Poll Cam | Managing Movements | Single camera Setup | Multi camera setup | Continuity Exercise | Do’s and don’ts of camera movements | Aesthetics and Psychological Impact of Moving Images | Various parts of Motion picture cameras | Moving Image-Motion Picture | Impact of collective moving	3		Theory, project and assignments, Screenings (T.V.) PPT, etc

	Images | Motion Picture Dynamics;		Techniques by Gerald Hirschfeld 17. Lighting for Film and Electronic Cinematography by John David Viera and Dave Viera 18. Painting with Light by John Alton 19. Picture Composition for Film and Television by Peter Ward 20. Matters of Light and Depth-Creating Memorable Images for Video, Film and Stills Through Lighting by Ross Lowell 21. Lighting Technology by Fitt and Thornley Set Lighting Technician's Handbook by Harry C. Box 22. Digital Cinematography by Ben De Leeuw 23. If It's Purple, Someone's Gonna Die: The Power Of Color In Visual Storytelling By Patti Bellantoni 24. High Definition Cinematography By Paul Wheeler	
Unit- V	Understanding digital video recording Principle of video recording | Digital Recording Formats | Editing and compression | Digital			Theory, project and assignments, Screenings (T.V.) PPT, etc

	sampling and storage | Technical formats of video- PAL, NTSC | "Time Code" in Video Recording | Film Stock and Processing			

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **F.Y.B.A.**
SEMESTER: **II**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: PRACTICAL FILM MAKING 1 (ONLY NON-FICTION FILM)**

LEARNING OBJECTIVE/S: To understand the film making process for multiple locations in non-fiction films
To understand the entire workflow
To gain exposure on various cameras and software used for production
The students will undergo the process of making a non-fiction film.
The students will be exposed to Semi-professional camera cameras & software. The students will also undergo same basic exercises such as 3 shot and 6 shot to give them a basic sense of framing, composition, movement and editing. The final project will be a non-fiction film with the duration of 5-10 minutes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: INTRODUCTION TO DIRECTION FOR TELEVISION**

LEARNING OBJECTIVE/S: 1. Understanding of the process of Direction for Television
2. Theoretical framework and practical approach to Direction
3. Creating Ads for various categories

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Understanding Television Culture & Semiotics. Understanding Space & Time, Ideology, Aesthetics, Stylistics & Setting. Construction: mise-en-scene & technical codes -1 Writing For Television: Research, Ideation and Conceptualization, Understanding The IV Act Structure for TV, Elements of a TV Program Constructing a plot w.r.t a family tree for serials. Constructing Character biography Writing for Humour Popular Indian TV Discourse- eg.: Aahat (Horror), Daily Soap (any) & Tarak Mehta (comedy) Syntagmatic & Paradigmatic analysis Polysemy Popular TV Discourse- Friends	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	Principles of Affinity & Contrast Director's Role in Television Inter-textuality & Role and Impression of Women Exploring Non-fiction Reality TV Exploring Non-fiction AD Filmmaking -1 Linear Motif in TV Creating content for TV- Directing for a Webisode			
Unit- II	The course aims to develop the sensibilities and sensitivities of the taught to comprehend the process of direction for television that entails understanding and analysis of different genres of television.	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- III	The learning includes understanding the television medium vis-à-vis the film, ideating, plotting and writing for different genres followed by inspecting the Director's role. Analysing the present day scenario. Experimenting by devising for short versions.	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	The sessions could be designed to give a thorough understanding of both – theory as well as practical's. All lectures will be in the form of interactive sessions and it is expected that the	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	student reads/watches television as directed before attending lectures.			

NAME OF THE STAFF: **ANURAG TAKKE, JAIVEER ARORA, PALAK SHAH**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: BASICS OF CINEMATOGRAPHY-2**

LEARNING OBJECTIVE/S: To understand the basic structure of film and digital camera | To enhance the basic knowledge about lighting and its use | To understand various equipment's required for various form of mood lighting | To understand basics of various digital cameras, lenses and digital cinematography | To learn the basics of special effects cinematography |To understand the needs of co-creators

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	– Structure of Film and Digital Camera: Understanding the internal structure of camera | perforation loop | pressure plate | Pull down claw | Magazine: Types of magazine | Threading of film | Intermittent Movement | Analysis of Claw motion | Registration pin | Sprocket wheel | Frames per sec | Camera Motors | Slow motion and Fast motion | Reverse Movement | Lens Mount Flange Depth | Magazine Cover/rain cover | Digital Process of Image capturing | Latitude of film Camera format | Latitude of digital	4	Textbooks: 1. Camera Terms and Concepts by David Elkins 2. The Camera Assistant by Doug Hart 3. Motion Picture Camera and Lighting Equipment by David Samuelson Reference Books: 1. Motion Picture Camera Techniques by David Samuelson 2. The 16mm Camera Book by Douglas Underdahl 3. The Hands On Manual for Cinematographers by David Samuelson 4. The Professional Lighting Handbook by Verne Carlson 5. The Filmmakers Pocket Reference by Blain Brown 6. American Cinematographer ASC Manual	Theory, project and assignments, Screenings (T.V.) PPT, etc

<table>
<tr><td></td><td>format | Shooting Format-16-mm/35-mm/70-mm/super.16/I-max/3-D | Convenience of Digital format | The Future of Film Formats</td><td></td><td rowspan="4">7. The Zone System for Photographers by Carson Graves
8. Cinematography: Screen craft by Peter Ettedgui
9. Contemporary Cinematographers-On Their Art by Pauline Rodgers
10. Operating Cinematography for Film and Video by William Hines
11. Cinematography- A Guide for Filmmakers and Film Teachers by Kris Mankiewicz
12. Film Lighting: Talks with Hollywood's Cinematographers and Gaffers by Kris Malkiewicz
13. The Five C's of Cinematography: Motion Picture Filming Techniques by Joseph V. Mascali
14. The Art of the Cinematographer: A Survey and Interviews with Five Masters by Leonard Maltin
15. Anton Wilson's Cinema Workshop by Anton Wilson

16. Image Control- Motion Picture and Video Camera Filters and Lab Techniques by Gerald Hirschfeld
17. Lighting for Film and Electronic Cinematography by</td><td></td></tr>
<tr><td>Unit- II</td><td>– Special Effects and Cinematography: Chrome key Concept | Preparation for chrome key | Compositing a digital Picture | Digital matte painting;</td><td>4</td><td>Theory, project and assignments, Screenings (T.V.) PPT, etc</td></tr>
<tr><td>Unit- III</td><td>Mood Lighting & Colour
Lighting Theory & Practice: Red, Blue, Green , Purple & Orange lights and Treatments for Various Scenes | Colour and Cultural;</td><td>4</td><td>Theory, project and assignments, Screenings (T.V.) PPT, etc</td></tr>
<tr><td>Unit- IV</td><td>Image formation (Understanding requirements of a director): Understanding a Screenplay writing | Writing for visuals- STORY BOARDING | Capturing the drama on the camera | How to create packets of emotional experience-Scene | Creation of Drama- Ingredients of a Drama;</td><td>4</td><td>Theory, project and assignments, Screenings (T.V.) PPT, etc</td></tr>
</table>

			John David Viera and Dave Viera 18. Painting with Light by John Alton 19. Picture Composition for Film and Television by Peter Ward 20. Matters of Light and Depth-Creating Memorable Images for Video, Film and Stills Through Lighting by Ross Lowell 21. Lighting Technology by Fitt and Thornley Set Lighting Technician's Handbook by Harry C. Box 22. Digital Cinematography by Ben De Leeuw 23. If It's Purple, Someone's Gonna Die: The Power Of Color In Visual Storytelling By Patti Bellantoni 24. High Definition Cinematography By Paul Wheeler	
Unit- V	– Understanding the needs of Co-creators (Director, Editor, Sound Recordist...) Working in team | Team Building | Conflict formation | Conflict Resolution	1		Theory, project and assignments, Screenings (T.V.) PPT, etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **UNDERSTANDING TV FORMATS & GENRES**

LEARNING OBJECTIVE/S: To understand how television programming works | To learn about TRPs and drama creation | To study the impact of niche programming | To learn about various genres of television programming

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Nature of drama in television: Various shows, formats and genres, telecast patterns, audience viewership performance	4	Textbooks: 1. Fundamentals of Film Directing By David K. Irving 2. Writing, Directing, and Producing Documentary Films and Videos By Alan Rosenthal 3. Breaking into Film by Kenna McHugh 4. Before You Shoot : A Guide to Low Budget Film and Video Production by Helen Garvey Reference Books: 1. Film Directing Cinematic Motion: A Workshop for Staging Scenes By Steven Douglas Katz 2. Film Directing Fundamentals: See Your Film Before Shooting By Nicholas T. Proferes 3. Problems Of Film Direction By Sergei Eisenstein	Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- II	– Creating Drama for TRPs: Building the story, herd culture existing in current times, breaking the barriers	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- III	Creating niche television programming: Importance of niche content, niche content channels, producing niche content in wake of DTH connections	4		Theory, project and assignments, Screenings (T.V.) PPT, etc
Unit- IV	Differentiation of infotainment, edutainment, entertainment, lifestyle genres: Differentiation of genres, Specialty of different genres,	4		Theory, project and assignments, Screenings (T.V.) PPT, etc

	popularity of genres, content on demand, Study of BBC & Discovery, Study of GECs			

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONCEPTS OF STORY BOARDING**

LEARNING OBJECTIVE/S: To understand the need for storyboarding | To learn the fundamentals of shoot taking and division | To understand various storyboarding techniques | To understand the importance of perspective and lighting while storyboarding

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	– Intro to Storyboarding/Visual Story telling & Storyboards: Origins of Story boards and aspect ratio	2	Text Books: 1. Exploring Storyboarding By Wendy Tumminello 2. The Art of the Storyboard: Storyboarding for Film, Tv, and Animation By John Hart 3. Directing the Story By Francis Glebes Reference Books: 1. Beginning Illustration And Storyboarding For Games By Les Pardew 2. Storyboards: Motion In Art By Mark Simon 3. From Word to Image: Storyboarding and the Filmmaking Process By Marcie Beg Leiter 4. Prepare to board! By Nancy Beiman 5. Storyboarding 101: A Crash	Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- II	Fundamentals of Shots: Terminology of Shoots, Camera Framing, Camera Angles and Movements	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- III	Storyboarding Techniques: · Concept- what the story is about, Drawing the components of the storyboard · Indicating motion in the storyboard, Increased reality- perspective and lighting	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- IV	Composition, Perspective & Lighting: Compositional	4		Theory, project and assignments, Drawing sheets, Adobe

	Elements, line-shape-contrast, creating meaning within image, Creation of depth through lens choice and linear, atmospheric and size perspective, High- Key Lighting, Low key Lighting, 3 point Lighting, Tonal quality of lighting.		Course in Professional Storyboarding By James O. Fraioli 6. Writing with pictures: how to write and illustrate children's books By Uri Shulevitz	illustration, Coral draw software, PPT, etc
Unit- V	Continuity: Basic Rules of continuity, 180 – Degree rule, screen direction, Cutaways & Cut-ins	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- VI	– Story Boards for Animations & Special Effects Films: Structure of animation films, Special effects breakdown, creating the environment	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc
Unit- VII	Story Boarding for Commercials and New Media: Structure of commercials, elements of brand building to be implemented, special colour scheme for brands and products	2		Theory, project and assignments, Drawing sheets, Adobe illustration, Coral draw software, PPT, etc

NAME OF THE STAFF: **BISWARANJAN SWAIN**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: GRAPHICS AND POST PRODUCTION (FLASH, EDITING SOFTWARE, AFTER EFFECTS)**

LEARNING OBJECTIVE/S: Basics of 2D animation, Vector and Raster Graphics, Basic Animation in Flash, Advanced editing
using Flash Elements in the film, Using After Effects, The interface of After Effects, Importing graphics and film, Keyframes, After effects and timeline, Animating using after effects, Compositing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Basics of 2D animation	4	-	Theory, project and assignments, After effects, Flash software PPT, etc
Unit- II	After Effects	4		Theory, project and assignments, After effects, Flash software PPT, etc
Unit- III	Basic Animation in Flash	4		Theory, project and assignments, After effects, Flash software PPT, etc
Unit- IV	Advanced editing	4		Theory, project and assignments, After effects, Flash software PPT, etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **III**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **TV PRODUCTION / AD FILM MAKING**

LEARNING OBJECTIVE/S: To introduce the process of 25 mins Television series making To understand the production pipeline of 25 mins Television series making process | To understand the entire workflow 25 mins Television series making process To gain exposure on various cameras and software used for production of 25 mins Television series making The students will undergo the process of 25 mins Television series. The students will be exposed to professional HD cameras & software and will work on projects ranging from 5Mins-25mins. The students will be exposed to the entire process of film making and the production workflow in television Series. The students can also work on an Ad film for about 60 seconds depending on the kind of TV series they are making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTRODUCTION TO DIRECTION FOR FILM**

LEARNING OBJECTIVE/S: To understand the need for direction in films | To understand the role played by a director | To understand the Qualities required to be a director | To learn how to manage creativity and creative team | To learn about drama and continuity for films | To learn the details involve in the production of a feature films

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	ARTISTIC IDENTITY AND DRAMA: The World of the Film Director, Identifying Your Themes	2	Textbooks: 1. Film Directing Cinematic Motion: A Workshop for Staging Scenes By Steven Douglas Katz 2. Film Directing Fundamentals: See Your Film Before Shooting By Nicholas T. Proferes 3. Problems Of Film Direction By Sergei Eisenstein Reference Books: 1. Directing: Film Techniques and Aesthetics By Michael Rabiger 2. On directing film By David Mamet 3. Directing Actors: Creating Memorable Performances for Film and Television By Judith Weston	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	SCREENCRAFT: A Director's Screen Grammar, Seeing with a Moviemaker's Eye, Shooting Projects	2		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	THE STORY AND ITS DEVELOPMENT: Recognizing the Superior Screenplay – How to create drama, Analysing a Screenplay, Director's Development Strategies, Alternative Story Sources, Setting Creative Limitations	2		Theory, project and assignments, Screening (TV) PPT, etc
Unit- IV	AESTHETICS AND AUTHORSHIP: Point of View, Subtext, Genre, and Archetypes, Time, Structure, and Plot, Space,	2		Theory, project and assignments, Screening (TV) PPT, etc

	Stylized Environments, and Performances, Form and Style		4. Art Direction for Film and Video By Robert L. Olson 5. The film director's team By Alain Silver, Elizabeth Ward 6. Notes of a film director By Sergei Eisenstein 7. Producing and Directing the Short Film and Video By Peter W. Rea, David K. Irving 8. Fundamentals of Film Directing By David K. Irving 9. Writing, Directing, and Producing Documentary Films and Videos By Alan Rosenthal 10. Breaking into Film by Kenna McHugh 11. Before You Shoot : A Guide to Low Budget Film and Video Production by Helen Garvey	
Unit- V	PRODUCTION: Developing a Crew, Mise-en-Scene, Producing a Shooting Script, Before the Camera Rolls, Roll Camera, Location Sound, Continuity, Directing the Actors, Directing the Crew, Monitoring Progress	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- VI	ORGANIZING ACTION IN AN ACTION SCENE: Staging and Camera for Over Easy Action Scene, Development of Screenplay, Director's Preparation for Directing an Action Scene, Over Easy Action Scene/Staging and Camera Angles for - Storyboard Artist	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- VII	– ORGANIZING ACTION IN A NARRATIVE SCENE: Staging and Camera for Narrative Scene, Choosing a Location, Staging, Camera Style	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- VIII	Styles And Dramatic Structures: Style, Narrative, Dramatic, and Poetic Visual Styles, The Variety of Dramatic Structures,	2		Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF VISUAL COMMUNICATION**

LEARNING OBJECTIVE/S: Aesthetics, Perception, Representation, Visual Rhetoric, Cognition, Semiotics, Reception
Theory, Narrative, Media Aesthetics, Ethics, Visual Literacy, Cultural Studies.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Aesthetics, Perception, Representation	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Visual Rhetoric, Cognition, Semiotics, Reception	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Theory, Narrative, Media Aesthetics	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit-IV	Ethics, Visual Literacy, Cultural Studies	4		Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **SAMPADA DESHMUKH**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONVERGENCE AND BASICS OF WEB DESIGNING**

LEARNING OBJECTIVE/S: Convergence and Basics of Web Designing
Concept of Convergence, Internet Key Terms, New Media. Web Designing, HTML programming,
Basic Java Script, Designing your own website, uploading the website, links and navigation

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Convergence and Basics of Web Designing	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Concept of Convergence, Internet Key Terms, New Media.	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	HTML programming,	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- IV	Basic Java Script, Designing your own website, uploading the website, links and navigation	4		Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **BISWARANJAN SWAIN**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **CONCEPTS OF POST PRODUCTION & COMPUTER GRAPHICS (INCLUDING VFX)**

LEARNING OBJECTIVE/S: To understand the basics of visual effects | To understand the basic process of visual effects |
To learn about GUI
and CG | To understand the basics of 3D and creating real world in the digital world | To learn about compositing and camera tracking | To understand the process of vfx and final rendering

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Introduction to pre-production, production and post-production: Visual effects' a relatively new term describes what used to be more appropriately called 'special photographic effects'. What makes an effect 'special'? The decision as to which medium and format VFX elements are going to be shot with is directly dependent on how they shall be employed and what the specifications are for their final resting place. Methods of creating visual effects, Implementation	4		Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- II	Introduction to the User Interface (GUI): Introduction to 3D Space and the GUI, Introduction to Modeling, Introduction to Polygonal Box Modeling,			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc

	Introduction to Shell Modeling			
Unit- III	CG Basics: Animation Basics, Animation Hierarchies and Deformation, Joints Hierarchies and Constraints, Cameras, Rendering and Path Animation | Understanding Pipeline and integration: Digital image manipulation, 2D digital image manipulation, Compositing software, New life into old methods, Perfecting the illusion, 3D computer-generated imaging (CGI), Digitizing (getting information into the computer)			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- IV	Introduction to Lighting and Rendering: Light Properties, Defining Shadows, Defining Highlights and Specular, Diffuse Inter-reflection and Global Illumination, Render Layers, Rendering Engines and methods			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- V	Introduction to Compositing: Camera Staging and Composition, Renderers and Algorithms Benefits/Disadvantages, Rendering Passes, Introduction to Specific Compositing Software, Compositing 3D			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- VI	Study of VFX and Camera Tracking: Overview of			Theory, project and assignments,

	Production Pipelines, Rendering Utility Nodes, Camera Tracking Foundation 2D and 3D			Screening (TV) PPT, Software and Computer etc
Unit- VII	Introduction to FX (Effects): Overview of Dynamics, Rigid Body and Fluids, Introduction to Particles, Expressions, Introduction to Fields, Project Work			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc
Unit- VII	Compositing and Rendering: The Interface, Keying, Rotoscoping, Color Correction, Keying, Multi-Pass Compositing			Theory, project and assignments, Screening (TV) PPT, Software and Computer etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **DRAMA PRODUCTION**

LEARNING OBJECTIVE/S: The module is intended to provide an introduction to the process of digital short film
production for the purpose of making works of drama and fiction. The focus will therefore be on enabling the development of the practical and theoretical skills in pitching, planning, writing,
shooting and editing necessary to produce a coherent and competent fictional moving image project.

The module will seek to introduce the student to a range of creative and scheduling skills which will assist them in the production of their projects. It will foreground the inherently collaborative and collective aspects of the production process by aiding the student to refine a range of communication and inter-personal skills to accomplish a broad range of tasks, including identification and planning of a suitable production idea; Allocation of roles for the pre-production, shooting and editing phases, as well as encouraging collective responsibility and accountability which is absolutely essential to the completion of any professional or team production. The module will also build upon the more technical grounding offered in Techniques 2 in order to develop the practical vocabulary and skills required to produce moving
image projects. Students will be encouraged to investigate and undertake a role throughout their productions. In crews, they will produce two shorts for inclusion in their personal practice portfolio.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Introduction to the process of digital short film	4	Textbook Rabinger, M (2007) Directing: Film Techniques and Aesthetics, 4th Edition, Hoboken, Taylor and Francis Jones, C. and Jollige, G. (2000), The Guerilla Film Makers Handbook: London: Continuum Reference Books Catliff, S & Granville J. (2013) The Casting	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	Making works of drama and fiction	4		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Enabling the development of the practical and theoretical skills in pitching, planning, writing,	4		Theory, project and assignments, Screening (TV) PPT, etc

Unit- IV	Shooting and editing necessary to produce a coherent and competent fictional moving image project.	4	Handbook: For Film and Theatre Makers, UK, Routledge Cartwright, S. (2012) Pre-Production planning for Video, Film and Multimedia, Hoboken, Taylor and Francis Field, S. (2005) Screenplay: The foundations of Screenwriting, New York, Delta Landry. P (2012) Scheduling and Budgeting your Film, Focal Press La Motte, R (2010) Costume Design 101: 2nd Edition: The Business and Art of Creating Costumes for Film and Television, Michael Wiese Productions Murch, W (2001) In the Blink of an Eye: A Perspective on Film Editing, Silman James Press Potter, C. (2001) Screen Language from Film Writing to Film Making: London Methuen	Theory, project and assignments, Screening (TV) PPT, etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **S.Y.B.A.**
SEMESTER: **IV**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **INTERMEDIATE PRACTICAL FILM MAKING (AD AND SHORT FICTION FILM)**

LEARNING OBJECTIVE/S: To understand the production pipeline of film making process in advertisement film making | To introduce the process of Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film making | To understand the entire workflow in Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film | To gain exposure on various cameras and software used for production of Advertisement Film (product as well as PSU) Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film The students will undergo the process of Advertisement Film (product as well as PSU), Corporate AV and In-depth Multiple Characters Single Multiple Location Short Film. The students will be exposed to professional HD cameras & software and will work on projects ranging from 30Seconds-15mins. The students will be exposed to the entire process of film making and the production workflow in Advertisement and Multiple Character multiple location Short Film production.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **AMBARI PATWARDHAN**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **LAWS RELATED TO FILMS, TV AND INTERNET**

LEARNING OBJECTIVE/S: To understand the various laws pertaining to media | To understand the need and importance of Copyright |To learn about intellectual property rights | To understand about media business ethics and issues pertaining to it

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	– Indian Contract Act, 1872: Essentials of valid contract discharge of contract, remedies for breach of contract. Contracts of Indemnity, Guarantee, Bailment, Pledge and Agency.	3	Text Books: 1. Maheshwari, S.N. and S.K. Maheshwari; A Manual of Business Law, 2nd Edition, Himalaya Publishing House, 2004. 2. Kushal M.C.,"Modern Indian Company Law",2004,Shree Mahavir Book Depot. 3. Kushal, M. C.; Business Law, Vikas Publishing House, New Delhi, 2004. Reference Books: 1. Kapoor, N. D.; Elements of Mercantile Law, Sultan Chand & Sons, NewDelhi,2003 2. Memoria & Memoria - Business Policy 3. David J. Fritzsche - Business Ethics: A Global & Management Perspective - Tata McGraw-Hill 4. Ramaswamy Namakumari - Strategic Planning - Corporate Strategy - MacMillan India Ltd 5. Velasquez - Business Ethics - Prentice - Hall of India	Theory, project and assignments, Screening (TV) PPT, etc
Unit- II	The Negotiable Instruments Act 1881: Essentials of a Negotiable instruments, Kinds of Negotiable Instrument Holder and Holder in Due Course, Negotiation by endorsements, crossing of a cheque and Dishonour of a cheque.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- III	Media Law, Copyright and	3		Theory, project and

	Intellectual Property: IPR & copyright laws, Copyright Agreements : Short-Term vs. Long-Term Agreements, Media Law and Infringements : Case Studies, Menace of piracy and remedies to counter piracy, Statutory and non-statutory bodies formed to fight piracy		6. Dr.S. Shankaran - Business Ethics & values 7. Gulshan S.S. and Kapoor G.K., "Business Law including CompanyLaw",2003,New Age International Private Limited Publishers. 8. Aggarwal S.K., "Business Law ,2003",Galgotia publishing Company. 9. Bargiel, Ashok; Company Law, Vikas Publishing House, 2004.4. Kapoor, N. D.; 10. Elements of Company Law, Sultan Chand & Sons, New Delhi, 2003.5. Dr. Singh, Avtar; 11. Company Law, Eastern Book Co. Lucknow, Bharat LawHouse, Delhi, 2004 12. Peter Madsen & Jay M. Shafritz - Essential of Business Ethics 13. Ken Smith and Phil Johnson - Business Ethics and Business Behavior 14. Pratley - Essence of Business Ethics - Prentice - Hall of India	assignments, Screening (TV) PPT, etc
Unit- IV	– Role and importance of Business Ethics and Values in Business - Definition of Business, Ethics Impact on Business Policy and Business Strategy - Role of CEO - Impact on the Business Culture.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- V	Types of Ethical issues - Bribes - Coercion - Deception - Theft - Unfair Discrimination.	3		Theory, project and assignments, Screening (TV) PPT, etc
Unit- VI	Vendors, Government, & Social Audit. | CSR- Definition and Importance, examples of various	3		Theory, project and assignments, Screening (TV) PPT, etc

	initiatives taken by various business groups like TATAs, Infosys, Birla and others | Difference between Cause Related Marketing (CRM) and CSR Case Studies: Reliance WLL license, 2G Scam, Satyam Scam and PWC’s role in the scam!!! | Role of bodies like Competition Commission of India, SEC, SEBI, TRAI, etc in curbing unethical practices			

NAME OF THE STAFF: **SAMPADA DESHMUKH**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: NEW MEDIA THEORY AND PRACTICE (WITH ADVANCED WEB DESIGN AND APP MAKING)**

LEARNING OBJECTIVE/S: Web Designing – Adobe Dreamweaver, Designing a web page without the graphic user interface (HTML using notepad), Frames, Layers, Search Engine Optimization, HTML and DHTML, Using JavaScript, Embedding Java Applets, Using Activex Controls, Embedding Video and Audio into web pages, Streaming media, Using YouTube, Creating Forms, Learning basic PHP and MYSQL, Creating Database and using it in the web design, Creating a website for Mobile phones, Creating a news site, creating a brochure site, designing a portal interface, using vernacular language in web sites, dynamic fonts, creating a vernacular medium website, New media and popular culture, social networking, emerging identities, games as advanced new media, mobile journalism, new media as a pedagogical tool.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Web Designing	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- II	Adobe Dreamweaver	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- III	HTML and DHTML, Using JavaScript, Embedding Java Applets	4		Theory, project and assignments, Screening (TV) PPT Computer, etc
Unit- IV	Basic PHP and MYSQL, Creating Database and using it in the web design, Creating a website	4		Theory, project and assignments, Screening (TV) PPT Computer, etc

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **UNDERSTANDING INDIAN CONTEMPORARY CINEMA**

LEARNING OBJECTIVE/S: Exploring the changing trends in Hindi Popular cinema in terms of storytelling, performances
technological and production aspects. Emergence of Film Festivals as a mode of exhibition and the kind of films selected for such prestigious film festivals. Focus on the changing aesthetic trends of regional films, popular films and festival films. Looking at the emergence of digital media and internet being a source of exhibition for films.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Exploring the changing trends in Hindi Popular cinema in terms of storytelling, performances	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- II	Technological and production aspects	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- III	Emergence of Film Festivals as a mode of exhibition and the kind of films selected for such prestigious film festivals.	4		Theory, project and assignments, Screening (TV) PPT etc
Unit- IV	Focus on the changing aesthetic trends of regional films, popular films and festival films. Looking at the emergence of digital media and internet being a source of exhibition for films.	4		Theory, project and assignments, Screening (TV) PPT etc

NAME OF THE STAFF: **JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: INTRODUCTION TO MEDIA PROJECT MANAGEMENT**

LEARNING OBJECTIVE/S: To educate about the basics involved in a media project management | To educate about the basic project production workflow and management | To educate about the role of a project manager | To help understand the details involving a new business project or proposal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Production Management: The production Manager's job, The process of Production Management, The Business of Film-Pre production, production & post production, Preparing for production, Special Low Budget Indie productions, Locations & unions Management, Cast & Crew – Selection, contracts, agreements, work permits, etc., Budget preparation and budget forms, Insurance & competition bonds	3	Textbooks: 1. Film Production Management 101 Management and Coordination by Deborah S Patz 2. Surviving Production: The Art of Production Management for Film and Television by Deborah S Patz 3. Film Production Management by Bastian Cleve Reference Books: 1. Character Animation & Film Production By Chris Neuhahn, Josh Book 2. Producing and Directing the Short Film and Video By Peter W. Rea, David K. Irving 3. Film Production Theory By Jean Pierre Gegens 4. Production Management for Film and Video By Richard Gates	Theory, project and assignments, PPT etc
Unit- II	Business Creation: Business Plans and Ideation: Entrepreneurship Routes, Case Studies (Relevant and time specific), Introduction to	3		Theory, project and assignments, PPT etc

	Company Creation, Processes of Registration and Incorporation, Company Law, Introduction to Company Law, Registration Procedures and Exceptions, Company Procedure and Ethics		5. The Independent Film Producer's Survival Guide: A Business and Legal Sourcebook By Gunnar Erickson, Harris Tulchin, Mark Halloran 6. The Complete Film Production Handbook by Eve Light Honthaner 7. Independent feature film production By Gregory Goodell 8. Film Production By Steven Bernstein 9. Film production: the complete uncensored guide to independent filmmaking By Greg Merritt	
Unit- III	Contracts and Negotiations: Revenue sharing model, Minimum guarantee model, Share in profits model	3		Theory, project and assignments, PPT etc
Unit- IV	Conflict Resolutions: Negotiations and Bargaining : Role Play Exercise, Research Methodology for Business Planning	3		Theory, project and assignments, PPT etc
Unit- V	Scouting for business opportunities: Investor Pitch Exercises, Business Plan Formulation and Redesign, Financial Projections for Businesses	3		Theory, project and assignments, PPT etc

NAME OF THE STAFF: **K. SUDHESH**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT: **BASICS OF MARKETING AND PUBLICITY**

LEARNING OBJECTIVE/S: To introduce the basics of marketing and publicity design | To educate about the importance of marketing in today's world | To help understand the various tools needed for marketing and publicity design | To learn about the marketing plan and market research | To help get insight into consumer consumption behaviour

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit- I	Introduction to Marketing: 1. Importance of marketing, definition of marketing, scope of marketing, functions of marketing, marketing and its relation to other business functions, difference between sales and marketing. 2. Key marketing terms and concepts- need, want, demand, exchange, marketing myopia and marketing orientations, distinction between selling and marketing.3. Marketing Mix, 4Ps, 7Ps, 4Cs.	2	Reference books: 1. Competing For The Future By C.K. Prahalad & Gary Hamel. 2. Kotler on Marketing: How to Create, Win, and Dominate Markets By Philip Kotler. 3. How to Win Friends and Influence People By Dale Carnigie. 4. Market Research: A Guide to Planning, Methodology and Evaluation By Paul Hague. 5. Art of War By Sun Tzu. 6. Strategic Management By Gregory Dess, Lumpkin & Taylor. 7. How Winners Sell: 21 Proven Strategies to Outsell Your Competition and Win the Big Sale ByDave Stein. 8. Beyond Bullet Points: Using	Theory, project and assignments, PPT etc
Unit- II	Marketing Research: Definition, Marketing Research	2		Theory, project and assignments, PPT etc

<table>
<tr><td></td><td>Process, Types of Research: Primary, Secondary, Qualitative, Quantitative</td><td></td><td rowspan="3">Microsoft® Office PowerPoint® 2007 to Create Presentations That Inform, Motivate, and Inspire By Cliff Atkinson.
9. Selling the Invisible: A Field Guide to Modern Marketing By Harry Beckwith.
10. Marketing Services: Competing Through Quality By Parasuraman & Leonard L. Berry.
11. Marketing Management (12th Edition) (Marketing Management) By Philip Kotler.
12. Consumer Behavior: Building Marketing Strategy, 9/e, (with DDB Needham Data Disk) By Hawkins, Best, & Coney.
13. Crossing the Chasm: Marketing and Selling High-Tech Products to Mainstream Customers By Geoffrey A. Moore.
14. Mind and Heart of the Negotiator, The (3rd Edition) By Leigh Thompson.
15. Radically Transparent By Andy Beal & Judy Strauss.</td><td></td></tr>
<tr><td>Unit- III</td><td>Consumer Behavior: 1. Introduction and importance, model of consumer behaviour, characteristics affecting consumer behaviour.</td><td>2</td><td>Theory, project and assignments, PPT etc</td></tr>
<tr><td>Unit- IV</td><td>Segmentation, Targeting & Positioning: 1. Segmentation - Bases and process of segmentation, requirements for effective segmentation, niche marketing, segmenting consumer markets, segmenting business markets.2. Targeting- Evaluating market segments, selecting target market segments.3. Positioning- Positioning maps, differentiation and positioning strategy, communicating and delivering the chosen position</td><td>3</td><td>Theory, project and assignments, PPT etc</td></tr>
<tr><td>Unit- V</td><td>Introduction to the concept of IMC: Introduction & Familiarization, Definition of</td><td>3</td><td></td><td>Theory, project and assignments, PPT etc</td></tr>
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	Promotion & Promotion Mix, Tools of Promotion Mix, IMC Planning Process, Creative Strategy, Media Strategy			
Unit- VI	Packaging for film & television: The art of Promo, Advertisement & In serial promotions, Art of Writing Copy, designing for various mediums, Public Relations, Planning, organizing and managing events. Managing the internet and social Media. Vendor selection and management, Media Planning & Buying	3		Theory, project and assignments, PPT etc

NAME OF THE STAFF: **SAMEER RANE, JENNIFER BARLA**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **V**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: ADVANCED PRACTICAL FILM MAKING - MUSIC VIDEOS**

LEARNING OBJECTIVE/S: To introduce the process of Music Video
To understand the production pipeline of Music Video
To understand the entire workflow in Music Video making process
To gain exposure on various cameras and software used for production of Music Video
The students will undergo the process of Music Video. The students will be exposed to professional HD cameras & software and will work on projects ranging from 5Mins-8mins. The students will be exposed to the production workflow in music Video.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

NAME OF THE STAFF: **SAMEER RANE**
DEPARTMENT: **FTNMP**
CLASS: **T.Y.B.A.**
SEMESTER: **VI**
ACADEMIC YEAR: **2022- 2023**
SUBJECT**: FINAL PROJECT- SHORT FILM (30 MINUTES)**

LEARNING OBJECTIVE/S: Comprehensive, which will include writing an original story to production and distribution of film in the national and international circuit. It will also involve creating a blog, FB page, website for the film. Write a report on the roles performed by each student. The students will have to make a 30 minute short fiction project.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit- I	Design and structure	4	-	Screenings (T.V.)
Unit- II	Pre-Production	4		
Unit- III	Production	4		
Unit- IV	Post Production	4		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Commerce

SEMESTER: I MONTH: October Academic Year: 2022-23

CLASS: F Y B Com Div. A & B

LEARNING OBJECTIVE/S: The learners will be able to :

Demonstrate knowledge of preparation of financial statement and financial schedule in accordance with GAAP – Generally Accepted Accounting Principles, through analysis and synthesis of information as well. Student will learn relevant financial accounting carrier skills, applying both quantitative & qualitative knowledge to their future carrier in business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Accountancy & Financial Management 1	**Accounting Standards Issued by ICAI and Inventory Valuation • Accounting Standards:** Concepts, Benefits, Procedures for Issue of Accounting Standards Various AS: **AS – 1: Disclosure of Accounting Policies** (a) Purpose (b) Areas of Policies (c) Disclosure of Policies (d)Disclosure of Change in Policies **AS – 2: Valuation of Inventories (Stock)** (a) Meaning, Definition (b) Applicability (c) Measurement of Inventory	03	*Financial Accounting by M. Mukherjee and M. Hanif, Tata McGraw Hill Education Pvt. Ltd., New Delhi* *Financial Accounting by Williams, Tata Mc. Grow Hill and Co. Ltd., Mumbai*	Chalk & talk, Black-Board Method; Group Discussion,
	(d) Disclosure in Final Account(e) Explanation with Illustrations **AS – 9: Revenue Recognition** (a) Meaning and Scope (b) Transactions Excluded (c) Sale of Goods (d) Rendering of Services (e) Effects of Uncertainties (f) Disclosure			
	Final Accounts • Adjustments and Closing Entries • Final Accounts of Manufacturing Concerns (Proprietary Firm)	12		

	Departmental Accounts Meaning Basis of Allocation of Expenses and Incomes / Receipts Inter Departmental Transfer: At Cost Price and Invoice Price Stock Reserve Departmental Trading and Profit and Loss Account and Balance Sheet	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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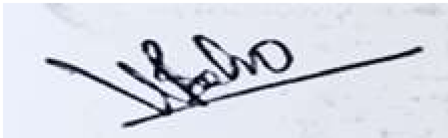

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1 Introduction to Advertising	Integrated Marketing Communications (IMC)- Concept, Features, Elements, Role of advertising in IMC	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Advertising: Concept, Features, Evolution of Advertising, Active Participants, Benefits of advertising to Business firms and consumers.	03		
	Classification of advertising: Geographic, Media, Target audience and Functions.	06		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*4=48

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 2	Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection criteria	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Agency and Client: Maintaining Agency–Client relationship, Reasons and ways of avoiding Client Turnover, Creative Pitch, Agency compensation	03		

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TEACHING PLAN (UNIT PLAN)

Advertising Agency	Careers in advertising: Skills required for a career in advertising, Various Career Options, Freelancing Career Options - Graphics, Animation, Modelling, Dubbing.	05	Communications Perspective George Belch and Michael Belch	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
	Economic Aspects: Effect of advertising on consumer demand, monopoly and competition, Price.	03		1.Lecture and discussion. 2. Flow charts.

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TEACHING PLAN (UNIT PLAN)

MODULE 3 Economic & Social Aspects of Advertising	Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture.	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Pro Bono/Social advertising: Pro Bono Advertising, Social Advertising by Indian Government through Directorate of Advertising and Visual Publicity (DAVP), Self-Regulatory body- Role of ASCI (Advertising Standard Council of India)	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – E, L, M, N

SEMESTER: III MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- I

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**

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TEACHING PLAN (UNIT PLAN)

MODULE 4 Brand Building and Special Purpose Advertising	Brand Building: The Communication Process, AIDA Model, Role of advertising in developing Brand Image and Brand Equity, and managing Brand Crises.	03	Advertising Principles and Practice, 2012 - Ruchi Gupta – S.Chand Publishing Advertising and Promotion: An Integrated Marketing Communications Perspective George Belch and Michael Belch	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Special purpose advertising: Rural advertising, Political advertising-, Advocacy advertising, Corporate Image advertising, Green Advertising – Features of all the above special purpose advertising.	03		
	Trends in Advertising: Media, Ad spends, Ad Agencies, Execution of advertisements	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*4=44

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: FYBCOM (H, I) SEMESTER: I (Subject : Commerce I) MONTH: Aug-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Learner will be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of business.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
COMMERCE I UNIT I BUSINESS	Introduction: Concept, functions, scope, significance OBJECTIVES OF BUSINESS : Steps, classification, reconciliation of economic & social objectives NEW TRENDS IN BUSINESS : Liberalisation, privatization, globalisation, strategy alternatives, restructuring strategies, turnaround strategies	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board
UNIT II BUSINESS ENVIRONM	INTRODUCTION : Concept, importance, inter relationship between business and environment Constituents: Internal and external environment, educational environment and its impact	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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ENT	International environment: Current trends in world, WTO, trading blocs and their impact			
UNIT IV Entrepreneurship	Entrepreneurship: Types, Competencies, Training & Development Centres, Incentives to Entrepreneurs, Women entrepreneurs: Problems, Promotion	08	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashlesha Maurya DEPARTMENT: Commerce CLASS: F.Y.B. Com SEMESTER: I

MONTH: July to November ACADEMIC YEAR: 2022-2023 Subject: Environmental Studies

Div. L, M, N, O

LEARNING OBJECTIVES:

The learners will be able to understand need to study this subject. It helps them to understand current environmental problems in the society and theirresponsibility towards the environment.

UNIT 1	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	1. Environment: Meaning, definition, scope and its components	5	1.Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method

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TEACHING PLAN (UNIT PLAN)

Environment and Ecosystem	2. concept of an ecosystem : definition, Characteristics, components and types, functioning and structure	4	2.Fundamentals of Ecology: Odum E.P.	Teaching aid: Google forms, Power point presentation,chalkboard
	3. Food Chain and Food Web, Ecological Pyramids	2		
	4. Man and environment relationship , Importance and scope of Environmental Studies	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:

The learners will be able to understand about different types resources and problems caused by improper utilization of natural resources. They will alsounderstand the concept of sustainability and its need to handle current environmental problems.

UNIT 2	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Natural Resources and Sustainable Development	1. Meaning, definitions, classification and types of resources	2	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2. discussion method Teaching aid: Google forms, Power point presentation, chalkboard
	2. Factors influencing resource; Resource conservation-meaning and methods	2		
	3.conventional and non-conventional resources	3		
	4. Problems associated with and management of water, forest and energy resources	5		

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TEACHING PLAN (UNIT PLAN)

	5. resource utilization and sustainable development	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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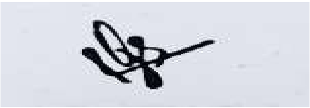

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:
The learners will be able to understand about environmental and social problems caused by increasing population and its control measures. They will able tounderstand concepts of HDI &WHI

UNIT 3	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Populations and Emerging Issues of Development	1. Population explosion in the world and in India and arising concerns, Demographic Transition Theory	3	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Pattern of population growth in the world and in India and associated problems	3		
	3. Measures taken to control population growth in India; Human population and environment	3		
	4. Environment and Human Health	1		

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TEACHING PLAN (UNIT PLAN)

	5. Human Development Index, The World Happiness Index	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:
The learners will be able to understand about concepts of urbanization and associated problems. They will learn about smart and sustainable cities.

UNIT 4	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Urbanisation and Environment	1. Concept of Urbanisation	1	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Problems of migration and urban environment- changing landuse, crowding and stress on urban resources	5		
	3. Degradation of air and water, loss of soil cover, impact on biodiversity, Urban heat islands	3		
	4. Emerging Smart Cities and safe cities in India - Sustainable Cities	3		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVES:
The learners will be able to read various types of thematic maps and learn about map fillings which will give them an idea of spatial distribution ofenvironmental problems

UNIT 5	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Reading of Thematic Maps and Map Filling	1. Reading of Thematic Maps Located bars, Circles, Pie charts, Isopleths, Choropleth and Flow map, Pictograms	4	Environmental studies: P.G. Shinde	Teaching Method: 1. Lecture method 2.Discussion method 3.Demonstration method Teaching aid: Chalkboard
	2. Map filling of World (Environmentally significant features) using point, line and polygon segment.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **II** (Subject : **BUS. ECONOMICS-II**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Market Structure: Perfect Competition and Monopoly**

The student must be able to understand **Pricing and Output Decisions under Imperfect Competition**

The student must be able to understand **Pricing practices**

The student must be able to understand **Evaluating capital projects**

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TEACHING PLAN (UNIT PLAN)

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - II	**Unit I:** **Perfect competition and Monopoly models** as two extreme cases - profit maximisation and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - Monopoly - Sources of monopoly power – short run and long run equilibrium of a firm under Monopoly	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases*	Google classroom, Google Forms
	Unit II: Monopolistic competition: Competitive and Monopolistic elements of monopolistic competition- equilibrium of firm under monopolistic competitions, monopolistic verses perfect competition, excess capacity and inefficiency, debate over role of advertising, (topics to be	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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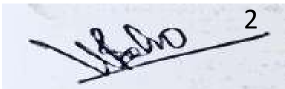

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TEACHING PLAN (UNIT PLAN)

	taught using case studies from real life examples) ***Oligopolistic Market***: Key attributes of oligopoly- Collusive and non-collusive oligopoly market, Price rigidity, Cartels and price leadership models(with practical examples)			
	Unit III: ***Unit III***: Cost oriented pricing methods: cost –plus (full cost)/mark-up pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple –product pricing - transfer pricing (case studies on how pricing methods are used in business world)	**10 lectures**		

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TEACHING PLAN (UNIT PLAN)

	Unit IV: Evaluating capital projects Meaning and importance of capital budgeting- steps in capital budgeting- Techniques of Investment appraisal: payback period method, net present value method, and internal rate of return method (with numerical examples)	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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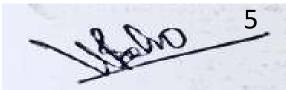

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Suborna S. Banerjee DEPARTMENT: B. Com. CLASS: FYBCom. SEMESTER: 1 (Subject : Bussiness Communication 1)

MONTH: August - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

To help students understand the various aspects of communication. The learners will be able to Preparing resumes to attending interviews, convenig meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.

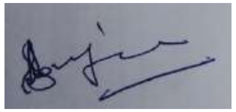
To make students aware of the importance of developing skills.

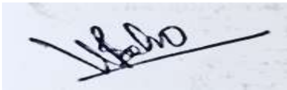
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
1) Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels: Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication:	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk – Board PPT

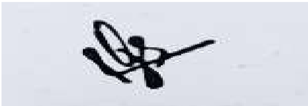
	Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
2) Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers 2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk –Talk Method PPT

4) Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities □ Listening Comprehension □ Remedial Teaching □ Speaking Skills: Presenting a News Item, Dialogue and Speeches □ Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling.	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk- Talk Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45







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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. learn basic concept of business.
2. learn various business objectives and various strategies of businesses.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1 BUSINESS	Introduction: concept, functions, scope, significance	03	Introduction to commerce, Vikram, Amit, Atlantic pub	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools(google meet, google formGoogle classroom, PPTs)
	Objectives of business: steps, classification, reconciliation of economic & social objectives	03		
	New trends in business: liberalisation, privatization, globalisation, strategy alternatives, restructuring strategies, turnaround strategies	06		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-20213 SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. To introduce the learners with Inter-relationship between Business and Environment.
2. To acquaint students with a knowledge of international trading environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 2: BUSINESS ENVIRONMENT	• Introduction: Concept and Importance of business environment, Inter – relationship between Business and Environmental.	3	Business Environment – Cherunilam	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (Google meet, google form Google classroom, PPTs)
	• Constituents of Business Environment: Internal and external Environment, Educational Environment and it's impact. .	4	Essentials of Business Environment – Aswathappa	
	• International Environment – Current Trends in the World, International Trading Environment - WTO and Trading Blocs and their impact on Indian Business	5		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

LEARNING OBJECTIVE/S: The learners will be able to:

1. To identify and demonstrate process for Business plan and its statutory requirements.
2. To makes students able to prepare project report, and Feasibility Study.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 3: PROJECT PLANNING	• Introduction: Business Planning Process; Concept and Importance of Project Planning; Project Report; Feasibility Study Types and its Importance.	4	Strategic management - Bhutani Business Organization Management - Maheshwari	1. Lecture and discussion. 2. Flow charts. 3. Online teaching learning tools (google meet, google form Google classroom, PPTs)
	• Business Unit Promotion: Concept and Stages of Business Unit Promotion, Location -Factors determining location and Role of Government in Promotion.	4		
	• Statutory Requirements in Promoting Business Unit: Licensing and Registration Procedure, Filling returns			

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TEACHING PLAN (UNIT PLAN)

	and other documents, other important legal provision.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – N & O

SEMESTER: 1st MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE I

EARNING OBJECTIVE/S: The learners will be able to:

1. Concept of entrepreneurship and the scenario of entrepreneurship in India.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE- 4 ENTREPRENEUR SHIP	Introduction: Concept, Importance, Factors – Growth of Entrepreneurship, Intrapreneurs	03	Entrepreneurship, Hisrich, Robert D, Mc grow Hill	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools(google meet, google form Google classroom, PPTs)
	Entrepreneurship: Types, Competencies, Training & Development Centres, Incentives to Entrepreneurs	03		

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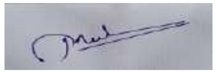
TEACHING PLAN (UNIT PLAN)

	Women entrepreneurs: Problems, Promotion	02		

TOTAL NO. OF LECTURES ALLOCATED TO THE UNIT: 08*2=16



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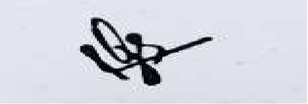

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: FYBCOM (ALL DIVISIONS) SEMESTER: I (Subject : NSS FC I)

MONTH: AUGUST TO OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Introduction to NSS	**UNIT- 1 Emergence of NSS in India (Historical Background) and its development.** Organizational Structure of National Service Scheme from National Level to College Level.Objectives of National Service Scheme (SS) National Service Scheme (NSS) - Symbol and it's meaning **UNIT -Il Symbol of NSS and its meaning** Motto of National Service Scheme (NSS)	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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	Various prayers, inspirational songs to be used in NSS Programme.		Service Scheme Manual,2009.	
UNIT-2 National Service Scheme Regular Activities	**UNIT - I Guidelines of Distribution of working hours or academic year.** Classification of Regular Activities in the Society Rural Urban Campus Need base with association **UNIT - II Associations in NSS Activities** Govt. Organization; NGO; Scope for Innovation (Self-Generated)	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
Unit 3 Social Issues in India	Features of Indian Society , communities in India, Family System, Division of Labour, Caste System , Gender Issues, Regional Imbalance.	12	1. Service Scheme Manual (Received) Government of India Ministry of	Chalk and talk method

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			Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	
UNIT4 : Indian Constitution and Social Justice.	Preamble , Strucutre, Features, Fundamental Rights and Duties. Social Justice – Concept and Features Contribution of Social Justice – Dr Ambedkar, Mahatma Phule and Shahu Maharaj	13	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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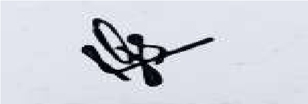

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: F.Y.BCom SEMESTER: I Subject: FINANCIAL ACCOUNTING

MONTH: JULY, AUG, SEP, & OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 & 4	**Inventory Valuation**: Part A - FIFO Method, Part B - Weighted Average Method	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Capital & Revenue expenditure: Capital Expenditure, Revenue Expenditure, (Explain Basic definition , features, Differences & Practical problem solved)	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Hire Purchaser : Calculation of Interest , Journal Entry in the book s of Purchaser company, Journal Entry in the book s of Vendor company, Ledger in the book of Purchaser & Vendor (Practical Problem Solve),	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Snehal S. Jadhav DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: I (Subject :Environmental Studies)

MONTH: November ACADEMIC YEAR: 2022 - 2023

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge about the Environment, its components and Environmental problems. It will help to create awareness about protection of environment and natural Resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	Unit 1: Environment and Ecosystem- Definition, scope, its components. Ecosystem-Definition, components and types, functioning and structure, Food chain, Food web, Ecological pyramid; Man, and environment relationship, Importance and scope of environmental studies.	13	Environmental Science by Santra S.C Online resources	Chalk-Board Method
	Unit 2: Natural Resources and Sustainable Development Meaning and Definitions; Classification and types of resources, factors influencing resource utilisation; Resource conservation- meaning and methods- conventional and non-conventional resources, problems associated with and management of water, forest and	13	Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

	energy resources- resource utilization and sustainable development.			
	Unit 3: Population and Immerging issues of Development: Population explosion in the world and India and arising concerns-Demographic Transition Theory- pattern of population growth and associated problems, Measures, Human population and environment, environment and Health,HDI, WHI. Unit 4: Urbanization and Environment: Concept of urbanization- problems of migration and urban environment- changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover, impact on biodiversity, Urban Heat Island, Emerging smart cities and safe cities in India, sustainable	13 13	Environmental Science by Santra S.C Online resources Environmental management by H V. Jadhav	Chalk-Board Method Chalk-Board Method
	Map filling and Map reading- World Map	04	Map book by Sheth and Vipul Publication	Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __SMITA KHAIRE___DEPARTMENT: Commerce (Interdisciplinary) CLASS: F.Y.B.COM SEMESTER: _I_ (Subject : EVS)

MONTH: August-November ____________ ACADEMIC YEAR: 2022-23___________

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge and understanding about the Environment, its components and Environment problems. It will help to create awareness about protection of the Environment and natural resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental Studies Div- I, J, K (U1 to U4 and Map reading and Map filling) Div-L (U1 and U4 and Map filling)	Unit 1: Environment and Ecosystem- Definition, scope, its components. Ecosystem-Definition, components and types, functioning and structure, Food chain, Food web, Ecological pyramid; Man, and environment relationship, Importance and scope of environmental studies.	13/7	Environmental Science by Santra S.C Online resources	Chalk-Board Method
	Unit 2: Natural Resources and Sustainable Development Meaning and Definitions; Classification and types of resources, factors influencing resource utilisation; Resource conservation-meaning and methods- conventional and non-conventional resources, problems associated with and management of water, forest and energy resources- resource utilization and sustainable development.	13	Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk-Board Method

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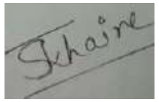
	Unit 3: Population and Immerging issues of Development: Population explosion in the world and India and arising concerns- Demographic Transition Theory- pattern of population growth and associated problems, Measures, Human population and environment, environment and Health, HDI, WHI.	13	Environmental management by H.V. Jadhav	Chalk-Board Method
	Unit 4: Urbanization and Environment: Concept of urbanization- problems of migration and urban environment changing land use, crowding and stress on urban resources, degradation of air and water, loss of soil cover, impact on biodiversity, Urban Heat Island, Emerging smart cities and safe cities in India, sustainable cities	13/7	Environmental Science by Santra S.C Online resources	Chalk-Board Method
	Map filling and Map reading- World Map	4	Map book by Sheth and Vipul Publication	Chalk-Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_ 13___



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TEACHING PLAN (UNIT PLAN)

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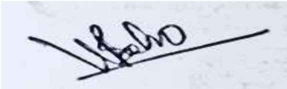

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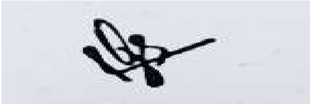

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _________Tejaswini Naik__________________ DEPARTMENT: accountancy CLASS: Fybcom SEMESTER: _1_ (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To give students an overview of how to keep systematic record of financial accounts and facilitate decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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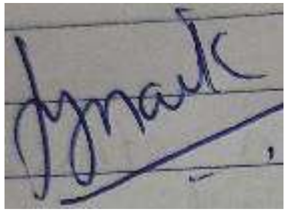

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TEACHING PLAN (UNIT PLAN)

	SUBTOPICS 1.Accounting standard 1 , 2 , and 9- Disclosure of accounting policies, stock valuation and revenue recognition.(theory only) 2. Inventory valuation – PROcess of purchase of inventory, method of valuation of stock- FIFO and weighed average method theory and practical questions. 3. Capital and revenue expenditure- difference, features, revenue income, capital income, theory and practical questions.	5 6 3	Manan publication	Blackboard

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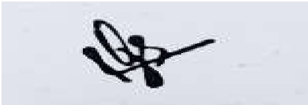

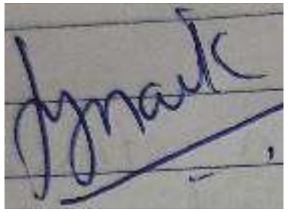

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TEACHING PLAN (UNIT PLAN)

	6. Accounting for Hire Purchase Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____21

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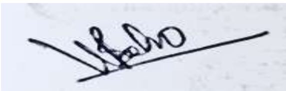

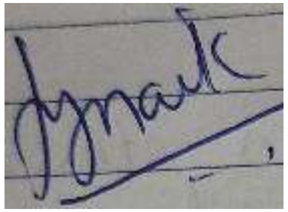

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TEACHING PLAN (UNIT PLAN)

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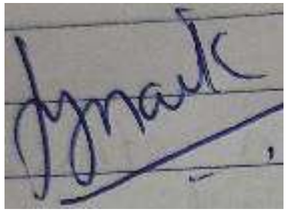

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKITA PANDEY** DEPARTMENT: **FYBCOM** CLASS: **COMMERCE** SEMESTER: **I** (Subject : **BUSINESS ECONOMICS**)

MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction	Introduction to Business Economics : Basic tools- opportunity cost Principle _ Incremental and marginal concepts. Basic economic relations _ functional relations : equations - Total, Average and Marginal relations _ use of marginal analysis in decision making. The basic of market demand, markets supply and equilibrium price_ shifts in the demand and supply curves and equilibrium.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 2 Demand Analysis	Demand Analysis Demand Function : Nature of demand curve under different markets meaning, significance, types and measurement of elasticity of demand. (price, income cross and promotional) -relationship between elasticity of demand and revenue concepts.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Demand Estimation and forecasting :	Demand Estimation and forecasting : Meaning and significance _ methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)			
UNIT 3 Supply and production decisions	Short run analysis with law of variable proportions _ production function with two variable inputs _ isoquants, ridge lines and least cost combination of inputs_ Long run production function and laws of returns to scale _ expansion path_ economies and diseconomies of scale and economies of scope	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 4 Cost of Production Extension of Cost Analysis :	Cost concepts : Accounting Cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and Incremental cost _ fixed and variable cost _ total, average and marginal cost _ Cost Output relationship in the short run and long run Cost reduction through experience -- LAC and Learning Curve _ Break even analysis [with business applications]	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHINGPLAN(UNITPLAN)

NAME OF THE STAFF: **VISHAKHA SANE** DEPARTMENT: **FYBCOM** CLASS: **COMMERCE** SEMESTER: **I** (Subject : **BUSINESS ECONOMICS**)

MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction	Introduction to Business Economics : Basic tools- opportunity cost Principle _ Incremental and marginal concepts. Basic economic relations _ functional relations : equations - Total, Average and Marginal relations _ use of marginal analysis in decision making. The basic of market demand, markets supply and equilibrium price_ shifts in the demand and supply curves and equilibrium.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 2 Demand Analysis	Demand Analysis Demand Function : Nature of demand curve under different markets meaning, significance, types and measurement of elasticity of demand. (price, income cross and promotional) -relationship between elasticity of demand and revenue concepts.	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

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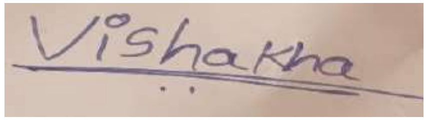
TEACHINGPLAN(UNITPLAN)

Demand Estimation and forecasting :	Demand Estimation and forecasting : Meaning and significance _ methods of demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression)			
UNIT 3 Supply and production decisions	Short run analysis with law of variable proportions _ production function with two variable inputs _ isoquants, ridge lines and least cost combination of inputs_ Long run production function and laws of returns to scale _ expansion path_ economies and diseconomies of scale and economies of scope	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board
UNIT 4 Cost of Production Extension of Cost Analysis :	Cost concepts : Accounting Cost and economic cost, implicit and explicit cost, social and private cost, historical cost and replacement cost, sunk cost and Incremental cost _ fixed and variable cost _ total, average and marginal cost _ Cost Output relationship in the short run and long run Cost reduction through experience -- LAC and Learning Curve _ Break even analysis [with business applications]	15	MANAN PRAKASHAN	Lecture method Case Study Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: ____BUSINESS ECONOMICS_____ CLASS: _____FYBCOM__
SEMESTER: __I (Subject : ________Business Economics I_________)

MONTH: _____July to October_______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: ___Learn and understand the basic concepts of Economics and how to imply Economics in their day to day life. As well as what are the

Various economic indicators in various economy and their purposes.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	1 Introduction Scope and Importance of Business Economics - basic tools- Opportunity Cost principle- Incremental and Marginal Concepts. Basic economic relations - functional relations: equations- Total, Average and Marginal relations- use of	4 lectures per week	H.K.Ahuja Advanced Economic Theory	Chalk Duster Ppt Presentation Google Classroom Class test Quiz Assignment Google meet

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TEACHING PLAN (UNIT PLAN)

	Marginal analysis in decision making, The basics of market demand, market supply and equilibrium price- shifts in the demand and supply curves and equilibrium 2 Demand Analysis Demand Function - nature of demand curve under different markets Meaning, significance, types and measurement of elasticity of demand (Price, income cross and promotional)- relationship between elasticity of demand and revenue concepts Demand estimation and forecasting: Meaning and significance - methods of			

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TEACHING PLAN (UNIT PLAN)

	demand estimation : survey and statistical methods (numerical illustrations on trend analysis and simple linear regression) 3 Supply and Production Decisions Production function: short run analysis with Law of Variable ProportionsProduction function with two variable inputs-isoquants, ridge lines and least cost combination of inputs- Long run production function and Laws of Returns to Scale - expansion path - Economies and diseconomies of Scale and economies of scope 4 Cost of Production Cost concepts: Accounting cost and economic cost, implicit and explicit cost,			

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TEACHING PLAN (UNIT PLAN)

	social and private cost, historical cost and replacement cost, sunk cost and incremental cost -fixed and variable cost - total, average and marginal cost - Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed) Extensions of cost analysis: cost reduction through experience - LAC and Learning curve - Break even analysis (with business applications)			

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __FYBCOM G&H__ SEMESTER: I__ (Subject : Commerce__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of businesses

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
UNIT II **BUSINESS ENVIRONMENT**	INTRODUCTION : Concept, importance, inter-relationship between business and environment	11	Introduction to commerce, Vikram , Amit, Atlantic pub Essentials of business environment-Ashwathappa	Chalk and board

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	CONSTITUENTS OF BUSINESS ENVIRONMENT: Internal and external environment, educational environment and its impact			
	INTERNATIONAL ENVIRONMENT: Current trends in the world, international trading environment-WTO and trading blocks and their impact on Indian business			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11___

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Project Planning	INTRODUCTION : Business planning process, concept and importance of project planning, project report, feasibility study types and its importance	**11**	Introduction to commerce, Vikram , Amit, Atlantic pub	**Chalk and board**
	BUSINESS UNIT PROMOTION: Concept and stages of business unit promotion, factors affecting location, role of government in promotion		Essentials of business environment- Ashwathappa	
	STATUTORY REQUIREMENTS: Licensing and registration, procedure, filing returns and other documents, other important legal provisions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11___

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Women Entrepreneur	INTRODUCTION : Concept, importance, factors – growth of entrepreneurship, intrapreneurs ENTREPRENEURSHIP : Types, competencies, training & development centres, incentives to entrepreneurs WOMEN ENTREPRENEURS : Problems, promotion	11	Introduction to commerce, Vikram , Amit, Atlantic pub	Chalk and Board
			Essentials of business	

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			environment- Ashwathappa	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: FYBCOM-K SEMESTER: I (Subject: Commerce I)

MONTH: August- December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Know the basic concepts of business and modern business theories to apply in today's dynamic world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Chp 1: Business	Introduction: Concept of Business, Functions, Scope Significance Objectives of Business: Steps, classification, Reconciliation of economic and social objectives New Trends in Business: Liberalisation, privatisation , globalisation, strategy alternatives, restructuring strategies, turnaround strategies	6	Manan Prakashan	Chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

[Ty

SIGNATURE OF THE H.O.D
(Accountancy)

SIGNATURE OF THE H.O.D
(Commerce)

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (I, J, L)

SEMESTER: I SUBJECT : Maths and Stats MONTH: Aug-Sep ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT I Shares and Mutual Funds	**Shares:** Concept of share, face value, market value, dividend, equity shares, preferential shares, bonus shares. Simple examples.	08	Securities Laws & Regulation of Financial Market : Intermediate Course Paper 8, Institute of Company Secretaries of India, Chapter 11.	Chalk and board
	Mutual Funds: Simple problems on calculation of Net income after considering entry load, dividend, change in Net Asset Value (N.A.V.) and exit load. Averaging of price under the Systematic Investment Plan (S.I.P.)	07	Indian Mutual Funds Handbook : By Sundar Shankaran, Vision Books, 2006, Sections 1.7,1.8.1, 6.5 & Annexures 1.1to 1.3.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (I, J, K)

SEMESTER: I SUBJECT : Maths and Stats MONTH: Aug-Sep ACADEMIC YEAR:- 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT II	**Permutation and Combination**: Factorial Notation, Fundamental principle of counting, Permutation as arrangement, Simple examples, combination as selection, Simple examples, Relation between r n C and r n P Examples on commercial application of permutation and combination	09	Applied Calculus: By Stephen Waner and Steven Constenoble, Brooks/Cole Thomson Learning, second edition, Chapter 1 to 5.	Chalk and board

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TEACHING PLAN (UNIT PLAN)

Permutation, Combination and Linear Programming Problems	**Linear Programming Problem**: Sketching of graphs of (i) linear equation Ax + By + C = 0 (ii) linear inequalities. Mathematical Formulation of Linear Programming Problems upto 3 variables. Solution of Linear Programming Problems using graphical method up to two variables.	06		Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (L ,O)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT IV ELEMENTARY PROBABILITY THEORY	**<u>Probability Theory</u>**: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: P(A ∩ B) = P(A) P(B). Simple examples.	08	Operations Research by Gupta and Kapoor 12.	Chalk and board
	<u>Random Variable</u>: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.	07	Operations Research by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBCOM (L)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT V DECISION THEORY	Decision making situation, Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision. Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I,J,K,L,M)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS	**Measures of Central Tendencies**: Definition of Average, Types of Averages: Arithmetic Mean,Median, and Mode for grouped as well as ungrouped data. Quartiles, Deciles and Percentiles. Using Ogive locate median and Quartiles. Using Histogram locate mode. Combined and Weighted mean.	08	Mathematics for Business Economics: By J. D. Gupta, P. K. Gupta and Man Mohan, Tata Mc- Graw Hill Publishing Co. Ltd., 1987, Chapters 9 to 11 & 16.	Chalk and board

Rinkal Das

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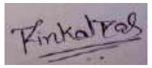
TEACHING PLAN (UNIT PLAN)

UNIT III SUMMARIZATION MEASURES	**<u>Measures of Dispersions</u>**: Concept and idea of dispersion. Various measures Range, Quartile Deviation, Mean Deviation, Standard Deviation, Variance, Combined Variance.	07	STATISTICS by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICAL AND STATISTICAL METHODS UNIT IV ELEMENTARY PROBABILITY THEORY	**Probability Theory**: Concept of random experiment/trial and possible outcomes; Sample Space and Discrete Sample Space; Events their types, Algebra of Events, Mutually Exclusive and Exhaustive Events, Complimentary events. Classical definition of Probability, Addition theorem (without proof), conditional probability. Independence of Events: $P(A \cap B) = P(A)\,P(B)$. Simple examples.	08	Operations Research by Gupta and Kapoor 12.	Chalk and board
	Random Variable: Probability distribution of a discrete random variable; Expectation and Variance of random variable, simple examples on probability distributions.	07	Operations Research by Schaum Series	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal Ajoy Das DEPARTMENT: Mathematics CLASS: FYBCOM (I,J,K)

SEMESTER: SEM I SUBJECT : Maths and Stats MONTH: Aug-Sept ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED.
MATHEMATICAL AND STATISTICAL METHODS UNIT V DECISION THEORY	Decision making situation, Decision maker, Courses of Action, States of Nature, Pay-off and Pay-off matrix; Decision making under uncertainty, Maximin, Maximax, Minimax regret and Laplace criteria; simple examples to find optimum decision. Formulation of Payoff Matrix. Decision making under Risk, Expected Monetary Value (EMV); Decision Tree; Simple Examples based on EMV. Expected Opportunity Loss (EOL), simple examples based on EOL.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: FYBCOM SEMESTER: I (Subject :Financial accounting)

MONTH: Aug – Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the methods of stock valuation , difference between capital and revenue items and learn the method of hire purchase accounting

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1: Stock Valuation	Introduction to Stock valuation, periodic and perpetual inventory system, FIFO method, it's advantages and disadvantages, weighted average method, it's advantages and disadvantages, practical sums	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 2: Capital and Revenue	Meaning of Capital expenditure and revenue expenditure, it's examples, meaning of Capital receipt and revenue receipts, it's examples, practical illustrations	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 3: Accounting for		15	Financial	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Hire Purchase syste m			Accounting by SN Maheshwari	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

Mekalani

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA MONALI SANKHE DEPARTMENT: ACCOUNTANCY

SEMESTER: I MONTH: October Academic Year: 2022-23

CLASS: F Y B Com Div. M AND N

LEARNING OBJECTIVE/S: The learners will be able to :
have knowledge of preparation of financial statements and financial schedules

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy & Financial Management	**1. Accounting Standards Issued by ICAI and Inventory Valuation • Accounting Standards:** **AS – 1: Disclosure of Accounting Policies** **AS – 2: Valuation of Inventories (Stock)** **AS – 9: Revenue Recognition**	03	*Manan Prakashan*	Chalk & talk, Black-Board Method; Group Discussion,
	2. Departmental Accounting	15		
	3. Branch Accounting	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Padmaja Joshi DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: I (Subject : Business Communication

MONTH: July-November ACADEMIC YEAR: 2022-23

- LEARNING OBJECTIVE/S: To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Unit I : Theory of Communication	Concept of Communication · Meaning · Definition · Process · Need · Feedback · Emergence of Communication as a key concept in the Corporate and Global world	**05**	Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial	Google classroom, T, blackboard, youtube
Unit 2: Communication at the Workplace	i. Channels of Communication (03) Formal and Informal – Vertical, Horizontal, Diagonal and Grapevine ii. Methods of Communication (05) Semester III: Applied Component: Paper-I Total Credits: 02 Course Title: Business Communication Verbal, Non-Verbal and Visual (including	29		Google classroom, PPT, blackboard, youtube

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

	Kinesics, Para-Language, Proxemics, Silence, Sign, Signal and Symbol) iii. Business Etiquette (04) Office Etiquette, Internet Etiquette / Netiquette, Business Card Etiquette, Handshake Etiquette, Mobile Phone Etiquette iv. Barriers to Communication and Ways to Overcome Them (06) Physical or Environmental, Semantic or Language, Psychological and Cross-Cultural Barriers Ways to Overcome these Barriers v. Listening (04) What is Listening? The Listening Process Importance of Good Listening How to Develop Effective Listening Skills Obstacles to Listening ii. vi. Business Ethics (07) What is Ethics? Business Ethics? Importance of Business Ethics at Workplace Digital Ethics Environmental Ethics Ethics in International Business Corporate Social Responsibility		Correspondence. Oxford UP, 1992. Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective	
Unit 3: New Media in Communication	· Impact of Technology Enabled Communication · Video Conference: Skype, Google Meet, Go-To-Meeting and Jio-Meet · Social Media: WhatsApp, Twitter, Facebook, Instagram, Telegram and Blog	07	Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and	Google classroom, PPT, blackboard, youtube

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TEACHING PLAN (UNIT PLAN)

Unit 4: Business Correspondenc	i. Theory of Business Letter Writing · Principles of Effective Letter Writing · Parts of a Business Letter · Layout of a Business Letter (Full Block) ii. Personnel Correspondence Job Application Letter and Resume Letter of Recommendation Letter of Appointment Letter of Acceptance of Job Offer Letter of Appreciation Letter of Resignation	14	Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005.	Google classroom, PPT, blackboard, youtube

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 55

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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PALLAVI G NAIK DEPARTMENT: COMMERCE CLASS: FYBCOM SEMESTER: I MONTH: AUG TO NOV

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Understand some of the most significant theories and principle

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUISNESS ECONOMICS I	MODULE I INTRODUCTION SCOPE AND IMPORTANCE OF BUISNESS ECONOMICS. BASIC CONCEPTS OF BUSINESS ECONOMICS ANALYSIS,OPPORTUNITY COST,INCREMENTAL AND MARGINAL CONCEPTS,MARGINAL ANALYSIS,FUNCTIONAL RELATIONS AND TOOLS FOR ECONOMIC ANALYSIS. CH 2 MARKET DEMAND AND SUPPLY DEMAND ,SUPPLY,MARKET EQULIBRIUM,CHANGES IN MARKET EQULIBRIUM MODULE II DEMAND ANALYSIS INTODUCTION,DEMAND,SUPPLY,MARKET EQUILIBRIUM,CHANGES IN MARKET EQUILIBRIUCH 3 DEMAND FUNCTION THE LAW OF DEMAND,DETERMINATS 0F DEMAND,DEMAND FUNCTION,PRICE INCOME AND SUBSTITUTION EFFECT,NATURE OF	8	MANAN PRAKASHAN	BLACKBORD AND CHALK GOOGLE CLASSROOM

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	DEMAND CURVE UNDER DIFFERENT MARKET MODULE II DEMAND ANALYSIS CH 4 ELASTICITY OF DEMAND PRICE ELASTICITY,INCOME ELASTICITY,CROSS ELASTICITY,PROMOTIONAL ELASTICITY OF DEMAND,IMPORTANCE OF ELASTICITY OF DEMAND CH 5 DEMAND ESTIMATION AND FORCASTING SIGNIFICANCE OF DEMAND FORECASTING TYPES, STEPS IN DEMAND FORECASTING METHODS OF DEMAND FORCASTING MODULE III SUPPLY AND PRODUCTION DECISIONS CH 6 THEORY OF PRODUCTION PRODUCTION FUNCTION,ISOQUANTS,RIDGE LINES,LEAST COST COMBINATION OF INPUTS,EXPANSION PATH CH 7 SHORT RUN AND LONG RUN ANALYSIS OF PRODUCTION TYPES OF PRODUCTION FUNCTION,LAW OF VARIABLE PROPORTIONS,LAWS OF RETURNS TO SCALE CH 8 ECONOMIES AND DISECONOMIES OF SCALE INTERNAL AND EXTERNAL DISECONOMIES ECONOMIES OF SCOPE.			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______8____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SACHI ARJUN KADAM DEPARTMENT: Accountancy CLASS: FYBAF SEMESTER: I_ (Subject : Cost Accounting)

MONTH: Oct ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Cost Accounting – Introduction and Elements of Cost				
Introduction to Cost Accounts	Evolution Objectives and Scope of Cost Accounting Importance and Advantages of Cost Accounting Difference between Cost Accounting and Financial Accounting Limitations of Financial Accounting Definitions: Cost, Costing and Cost Accounting Classification of Cost on Different Bases Cost Allocation and Apportionment Coding System Essentials of Good Costing System 2	10	Cost Accounting Theory and Practice by B.K. Bhar, Tata Mc. Grow Hill and Co. Ltd., Mumbai	Online/ Google Meet / PPT

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TEACHING PLAN (UNIT PLAN)

	Labour Prctical Problem Merrick system, Taylor, halsey, rowan Material FIFO , weighted avg method	5 5		
Overheads	Overheads: The Concept Classification of overheads on different bases Apportionment and Absorption of Overheads	15	Cost Accounting by S.P. Jain and K.L. Narang, Kalyani Publishers, Ludhiana	Online/ Google Meet / PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEIDA DEPARTMENT:__Commerce____CLASS:__FYBCOM SEMESTER: I_____(Subject : Commerce__)

MONTH: JUNE ACADEMIC YEAR:_2022-23___

LEARNING OBJECTIVE/S: _To be able to learn basic concept of business. He will also be able to learn various business objectives and various strategies of businesses

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
UNIT 1	OBJECTIVES OF BUSINESS : Steps, classification, reconciliation of economic & social objectives			

SANDRA ALMEIDA

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TEACHING PLAN (UNIT PLAN)

UNIT II **BUSINESS ENVIRON MENT**	INTRODUCTION : Concept, importance, inter-relationship between business and environment	11	Introduction to commerce, Vikram , Amit, Atlantic pub Essentials of business environment- Ashwathappa	Chalk and board

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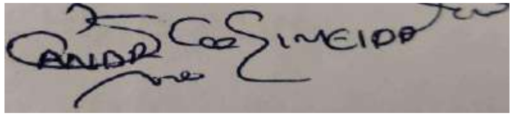
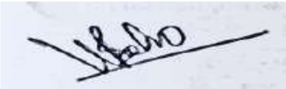
	CONSTITUENTS OF BUSINESS ENVIRONMENT: Internal and external environment, educational environment and its impact INTERNATIONAL ENVIRONMENT: Current trends in the world, international trading environment-WTO and trading blocks and their impact on Indian business			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11____





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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Project Planning	INTRODUCTION : Business planning process, concept and importance of project planning, project report, feasibility study types and its importance	**11**	Introduction to commerce, Vikram , Amit, Atlantic pub	**Chalk and board**
	BUSINESS UNIT PROMOTION: Concept and stages of business unit promotion, factors affecting location, role of government in promotion		Essentials of business environment- Ashwathappa	
	STATUTORY REQUIREMENTS: Licensing and registration, procedure, filing returns and other documents, other important legal provisions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11____

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Women Entrepreneur	INTRODUCTION : Concept, importance, factors – growth of entrepreneurship, intrapreneurs ENTREPRENEURSHIP : Types, competencies, training & development centres, incentives to entrepreneurs WOMEN ENTREPRENEURS : Problems, promotion	11	Introduction to commerce, Vikram , Amit, Atlantic pub	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: COMMERCE CLASS: FYBCOM(A,B,C,D) SEMESTER: II

(Subject: FOUNDATION COURSE - II) MONTH: DEC- MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: By the end of the session Students will be able to:

<u>The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.</u>

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	Concepts of liberalization, privatization and globalization. Growth of information technology and communication and its impact manifested in everyday life. Impact of globalization on industry: changes in employment and increasing migration. Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 2 Human Rights	a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD

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TEACHING PLAN (UNIT PLAN)

	d] Fundamental Rights in Constitution			• INTERACTIVE METHOD
UNIT 3 Ecology	a] Concept of environment & ecology. b] Importance of environmental studies, Environment as a Natural capital & quality of human life. c] Environmental Degradation, Causes, Impact on human life d] Sustainable Development – Concept, Components e] Poverty & Environment	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 4 Understanding Stress & Conflicts	Causes of stress & Conflicts in individual & society. Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotypying & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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TEACHING PLAN (UNIT PLAN)

UNIT 5 Managing stress & conflict in Contemporary Society	Types of conflicts and use of coping mechanisms for managing individual stress. Maslow's theory of self-actualisation. Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AARADHANA R SINGH   DEPARTMENT: COMMERCE   CLASS: FYBCOM (K and L)   SEMESTER: II (Subject : COMMERCE II)

MONTH: DECEMBER TO MARCH   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to:

- Understand the meaning of services.
- Get knowledge of E-commerce and retailing its format.
- Interpret global trend in service sector and the future opportunities

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT I: CONCEPT OF SERVICES	• **Introduction** : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context. • **Marketing Mix for Services**: Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people. • **Service Strategies**: Market research and services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	12	Management Of Service Sector, Bhatia, B S, V P Pub	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

UNIT – 2 Retailing	• **Introduction**: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers • **Retail Format**: Store format, Non – Store format, Store Planning, design and layout • **Retail Scenario**: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management – RetailFranchising. FDI in Retailing, Careers in Retailing	12	Learning retailing Management, Levy Michael., Weitz Barton A,Tata Mcgraw Hill	Chalk-board, discussion, example and test
Unit-3 Recent trends in service sector	• **ITES Sector**: Concept and scope of BPO, KPO, LPO and ERP • **Banking and Insurance Sector**: ATM, Debit & Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India. **Logistics**: Net-working – Importance – Challenges.	12	Management of services sector-Bhatia	Chalk-board, discussion, example and test
Unit -4	• **Introduction**: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce	09	introduction To E – Commerce,	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

E-commerce	• **Types of E-Commerce**: Basic ideas and Major activities of B2C,B2B, C2C. • **Present status of E-Commerce in India**: Transition to E-Commerce in India, E-Transition Challenges for Indian Corporates; on-line Marketing Research.		Dhawan, Nidhi, International Book House	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 1	Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage,	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	New Age Media: Digital Media / Internet Advertising – Forms, Significance and Limitations	03		

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TEACHING PLAN (UNIT PLAN)

Media in Advertising	Media Research: Concept, Importance, Tool for regulation - ABC and Door darshan Code	05	Subroto Sengupta, 2005, Tata McGraw Hill Publication.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
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PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
	Advertising Campaign: Concept, Advertising Campaign Planning -Steps Determining advertising objectives - DAGMAR model	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning

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TEACHING PLAN (UNIT PLAN)

MODULE 2 Planning Advertising Campaigns	Advertising Budgets: Factors determining advertising budgets, methods of setting advertising budgets, Media Objectives - Reach, Frequency and GRPs	03	Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	tools (google meet, google form Google classroom, PPTs)
	Media Planning: Concept, Process, Factors considered while selecting media, Media Scheduling Strategies	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

LEARNING OBJECTIVE/S:

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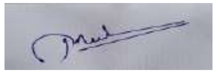

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PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 3 Execution and Evaluation of Advertising	Creativity: Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Creative aspects: Buying Motives - Types, Selling Points- Features, Appeals – Types, Concept of Unique Selling Preposition (USP)	03		
	Creativity through Endorsements: Endorsers – Types, Celebrity Endorsements – Advantages and Limitations, High Involvement and Low Involvement Products	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – K, L

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: ADVERTISING- II

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVE/S:
1. To highlight the role of advertising for the success of brands and its importance within the marketing function of a company.
2. It aims to orient learners towards the practical aspects and techniques of advertising.
3. It is expected that this course will prepare learners to lay down a foundation for advanced post-graduate courses in advertising

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 4 Fundamentals of Creativity in Advertising	Preparing print ads: Essentials of Copywriting, Copy – Elements, Types, Layout- Principles, Illustration - Importance.	03	Brand Equity & Advertising- Advertising's role in building strong brands, 2013- David A. Aker, Alexander L. Biel, Psychology Press Brand Positioning – Strategies for Competitive Advantage, Subroto Sengupta, 2005, Tata McGraw Hill Publication.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Creating broadcast ads: Execution Styles, Jingles and Music – Importance, Concept of Storyboard	04		
	Evaluation: Advertising copy, Pre-testing and Post-testing of Advertisements – Methods and Objectives	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: FYBCOM SEMESTER: 2 (Subject : Financial Accounting)

MONTH: DECEMBER - MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 Accounting for Incomplete Records	Introduction, Entries, Format. Opening Statement of Affairs . Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom
UNIT 2 Consignment Accounts	Introduction to consignment , Consignee, Consignor. Format and journal entries for the same. Practical problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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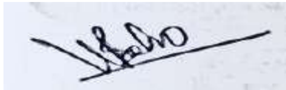

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: FYBCOM (E, F) SEMESTER: II (Subject : Commerce II)

MONTH: December- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To introduce learners with different concepts of services.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
UNIT I: CONCEPT OF SERVICES	Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context Marketing Mix for Services : Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people Service Strategies : Market research and services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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UNIT II RETAILING	INTRODUCTION : Concept of organised & unorganised retailing, trends in retailing, growth of organised retailing, survival strategies for unorganised retailing Retail scenario : Retail scenario in India, retail scenario in global context, prospects & challenges in India, mall management, retail franchising, FDI Retail format : Store format, non-store format, store planning	11	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board
UNIT III Recent trends in service sector	ITES SECTOR :BPO, KPO, LPO,ERP BANKING & INSURANCE SECTOR : ATM, DEBIT CARD, CREDIT CARD, Internet banking, opening of insurance sector for private players, FDI & its impact on banking & insurance sector in India Logistics: Elements, importance and challenges	12	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

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UNIT IV E-Commerce	Introduction :Meaning, Features, Functions and Scope of E-Commerce – Importance and Limitations of E-commerce Types of E- Commerce :Basic ideas and Major activities of B2C, B2B, B2C Present Status of E- Commerce in India : Transition to E- Commerce in India, E-Transition Challenges for Indian Corporates, On-line Marketing Research	08	Introduction to commerce, Vikram , Amit,Atlantic pub	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 43

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ashlesha Maurya** DEPARTMENT: **Commerce** CLASS: **F.Y.B. Com (Div- N)** SEMESTER: **II**

MONTH: December to March ACADEMIC YEAR: 2022-2023 Subject: Environmental Studies

LEARNING OBJECTIVES:

The learners will be able to understand about solid waste and the problems associated with their improper management. They will learn about proper waste handling and treatment done by MCGM.

UNIT 1	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management	1. Classification of solid wastes – Types and Sources of Solid Waste	3	1.Environmental studies: P.G. Shinde 2. A Textbook of Environmental	Teaching Method: 1. lecture method 2. discussion method Teaching aid: Google forms, Power point presentation, chalkboard
	2. Effects of Solid Waste Pollution- Health hazards, Environmental Impacts	3		

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TEACHING PLAN (UNIT PLAN)

for Sustainable Society	3. Solid Waste Management	3	Chemistry and Pollution Control: S.S.Dara	
	4. solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in Mumbai	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVES:

The learners will be able to understand about the different types of environmental problems associated with agriculture and Industries. They will also learn about sustainable agricultural & industrial practices.

UNIT 2	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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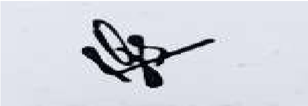

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TEACHING PLAN (UNIT PLAN)

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Agriculture and Industrial Development	1. Environmental Problems Associated with Agriculture: Loss of Productivity, Land Degradation ,desertification	3	Environmental studies: P.G. Shinde 2. A Textbook of Environmental Chemistry and Pollution Control: S.S.Dara	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2.Uneven Food Production – Hunger, Malnutrition and Food Security – Sustainable Agricultural practices	3		
	3. Environmental Problems Associated with Industries – pollution	3		
	4. Global warming, Ozone Layer Depletion , Acid rain	2		
	5. Sustainable Industrial practices – Green Business and Green Consumerism, Corporate Social Responsibility	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

LEARNING OBJECTIVES:

The learners will be able to understand about the various tourism types, tourism potentials in India and challenges before India. They will learn about positive and negative impacts of tourism

UNIT 3	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Tourism and Environment	1. Tourism: Meaning, Nature, Scope and importance	2	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method Teaching aid: Google forms, Power point presentation,chalkboard
	2. Typology of tourism- classification	3		
	3. Tourism potentials in India and challenges before India, New tourism Policy of India	3		
	4. Consequences of tourism : Positive and Negative Impacts on Economy, Culture and environment	3		

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TEACHING PLAN (UNIT PLAN)

	5. Ecotourism	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

LEARNING OBJECTIVES:

The learners will be able to understand about various environmental movements in India. They will learn the concepts of Environmental Management, ISO, EIA. They will also understand Concept and components of Geospatial Technology.

UNIT 4	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghat and Save Jaitapur	4	Environmental studies: P.G. Shinde	Teaching Method: 1. lecture method 2.discussion method

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Environmental Movements and Management	2. Environmental Management: Concept, need and relevance; Concept of ISO 14000 and 16000; Concept of Carbon Bank and Carbon Credit	3		Teaching aid: Google forms, Power point presentation,chalkboard
	3. .EIA - Environment Protection Acts	2		
	4. Concept and components of Geospatial Technology- Applications of GST in Environmental Management.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

LEARNING OBJECTIVES:

The learners will be able to learn about map fillings which will give them an idea of spatial distribution of environmental problems

UNIT 5	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Reading of Thematic Maps and Map Filling	1. Map filling of Konkan (Environmentally significant features)using point, line and polygon segment.	4	Environmental studies: P.G. Shinde	Teaching Method: 1. Lecture method 2.Discussion method 3.Demonstration method Teaching aid: Chalkboard
	2. Map filling of Mumbai (Environmentally significant features) using point, line and polygon segment.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. BRISTI BISWAS **DEPARTMENT**: Business Economics **CLASS**: FYBCOM **SEMESTER**: II (**Subject**: BUSINESS ECONOMICS)

MONTH: DEC 2022-MARCH 2023 **ACADEMIC YEAR**: 2022-2023

LEARNING OBJECTIVE/S: To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 Market Structure: Perfect competition and Monopoly	**Perfect Competition:** Features, Equilibrium of firm and industry in the short run and long run.	10	H.L Ahuja Advanced Economic Theory	Chalk and Board Discussion Case studies
	Monopoly: Features, Sources of monopoly, short and long-run equilibrium		H.L Ahuja	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Unit 2: Imperfect Competition			Advanced Economic Theory	Discussion Case studies
Unit 3: Pricing Practices	**Monopolistic Competition:** Features, Short run equilibrium, group equilibrium, effects of selling cost, role of advertisement, perfect competition vs. monopolistic competition **Oligopoly**: Features, Collusive and Non-collusive oligopoly, kinked demand curve, cartel formation, price leadership	10	H.L Ahuja Advanced Economic Theory	Chalk and Board
Evaluating capital projects	**Pricing Practices:** Price discrimination, marginal cost pricing, mark-up pricing, multiproduct pricing, transfer pricing	10		Chalk and Board
Unit 4:	**Capital Budgeting:** Meaning, importance, steps, Payback period method, NPV, IRR	10		Chalk and Board Case Studies

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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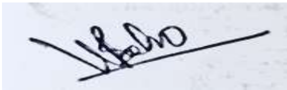

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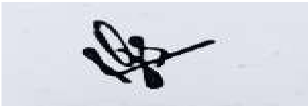

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: II (Subject: Business Economics II

MONTH: November – March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand dynamics of the markets

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics II	Perfect Competition: Features, Equilibrium of firm and industry in the short run and long run. Monopoly: Features, Sources of monopoly, short and long-run equilibrium	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Monopolistic Competition: Features, Short run equilibrium, group equilibrium, effects of selling cost, role of advertisement, perfect competition vs. monopolistic competition Oligopoly: Features, Collusive and Non-collusive oligopoly,	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

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	Pricing Practices: Price discrimination, marginal cost pricing, Mark-up pricing, Multi-Product pricing, Transfer pricing		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: Capital Budgeting Meaning and Importance of Capital Budgeting, Payback Method, NPV, IRR		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: _ Accountancy CLASS: F Y B Com (A&B)_ SEMESTER: II (Subject : Accountancy&financial management II)
MONTH: JAN, FEB, MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: _The Lerner will able to understand the Accounting for incomplete records and its importance. They will learn theoretical as well as practical concept about fire insurance claim and its importance. Understand the meaning of Branch along with its types. The learners will able to calculate profit & loss of each branch separately. They are able to ascertain the financial position of each branch separately on a particular date. The learner will able to understand the special features of consignment business, meaning of the term consigner & consignee and difference between two transaction – sales & consignment. Practice the accounting treatments for consignment transactions and events in the books of consigner & consignee.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Accountancy & Financial Management II	Chapter 1: Accounting for Incomplete Records • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account	15	*Advanced Accountancy by R.L Gupta and M. Radha swamy, S. Chand and Company (P) Ltd., New Delhi*	Chalk & talk, Black-Board Method,, MS Office & discussion. Google classroom

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TEACHING PLAN (UNIT PLAN)

	• Problems on Preparation of Final Account of Proprietary (Conversion Method) Chapter 1: Accounting for Incomplete Records • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account • Problems on Preparation of Final Account of Proprietary (C **Consignment Accounts** Accounting for Consignment Transactions Valuation of Stock (at Cost Price & at Invoice Price) Invoicing of Goods at Higher Price **Branch Accounts** Meaning / Classification of Branches Accounting for Dependent Branch (at Cost Price & at Invoice Price) Debtors Method		Introduction to Accountancy by T.S. Grewal, S.	

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TEACHING PLAN (UNIT PLAN)

	Stock and Debtors Method			
	Chapter 4: Fire Insurance Claim • Introduction & Meaning • Computing Loss with Stock on Date of Fire, Salvage & Actual Loss • Computing Claim With & Without Average Clause • Memorandum Trading Account • Total Debtors & Total Creditors Account to Ascertain Credit/Cash Sale and Purchase • Problems Solved on the same •			

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_60___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **II** (Subject : **BUS. ECONOMICS-II**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Market Structure: Perfect Competition and Monopoly**

The student must be able to understand **Pricing and Output Decisions under Imperfect Competition**

The student must be able to understand **Pricing practices**

The student must be able to understand **Evaluating capital projects**

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PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - II	**Unit I:** **Perfect competition and Monopoly models** as two extreme cases - profit maximisation and the competitive firm's supply curve - Short run and long run equilibrium of a firm and of industry - Monopoly - Sources of monopoly power – short run and long run equilibrium of a firm under Monopoly	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases*	Google classroom, Google Forms
	Unit II: Monopolistic competition: Competitive and Monopolistic elements of monopolistic competition- equilibrium of firm under monopolistic competitions, monopolistic verses perfect competition, excess capacity and inefficiency, debate over role of advertising, (topics to be	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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	taught using case studies from real life examples) ***Oligopolistic Market***: Key attributes of oligopoly- Collusive and non-collusive oligopoly market, Price rigidity, Cartels and price leadership models(with practical examples)			
	Unit III: ***Unit III***: Cost oriented pricing methods: cost –plus (full cost)/mark-up pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing - transfer pricing (case studies on how pricing methods are used in business world)	**10 lectures**		

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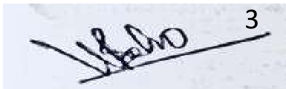

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TEACHING PLAN (UNIT PLAN)

	Unit IV: Evaluating capital projects Meaning and importance of capital budgeting- steps in capital budgeting- Techniques of Investment appraisal: payback period method, net present value method, and internal rate of return method (with numerical examples)	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Suborna S. Banerjee **DEPARTMENT**: Commerce **CLASS**: FYBCOM **SEMESTER:** II

SUBJECT : Bussiness Communication 2 MONTH: Dec to April

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills.

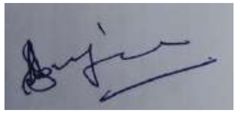
The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.

To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED	
1) Group Communication	1) Interviews: 2) meetings: 3) Committees & Conferences: 4) Public Relations:	15	Manan Publication, Sheth Publication, Vipul Publication	PPT and Sketches	

2) Business correspondence	1) Trade Letters	15	From Internet	Chalk – Talk Method	
3) Language and writing skills	1) Reports & Business Proposals 2) Summarization	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk – Talk Method	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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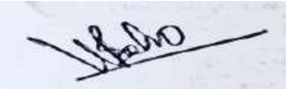

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of services.
2. To make student able to identify elements of marketing mix, Service Strategies and it's implementation in service sector.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 1: CONCEPT OF SERVICES	• Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context.	4	Service Marketing – Temani Management of Service sector - Bhatia	1. Lecture and discussion . 2. Flow charts.
	• Marketing Mix for Services : Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people.	4		
	• Service Strategies : Market research and			

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TEACHING PLAN (UNIT PLAN)

	services development cycle, Managing demand and Capacity, Opportunities and challenges in service sector.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 ×2 div = 24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of organized and un-organized retailing.
2. To make student able to identify essentials of store formates.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Introduction: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers	4	Introduction To Retailing,Lusch, RobertF.,Dunne, PatrickM.,Carver ,JamesR.,CengageLearning	Lecture and discussion . Flow charts.

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TEACHING PLAN (UNIT PLAN)

MODULE 2 RETAILING	Retail Format: Store format, Non – Store format, Store Planning, design and layout	4	Retailing Management, Levy Michael., Weitz Barton A,Tata Mcgraw Hill	
	Retail Scenario: Retail Scenario in India and Global context – Prospects and Challenges in India.Mall Management – RetailFranchising. FDI in Retailing, Careers in Retailing	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 ×2 div = 24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts of services outsourcing

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

MODULE 3 RECENT TRENDS IN SERVICE SECTOR	ITES Sector: Concept and scope of BPO, KPO, LPO and ERP.	4	Management Of Service Sector, Bhatia, B S, V P Pub	Lecture and discussion . Flow charts.
	Banking and Insurance Sector: ATM, Debit & Credit Cards, Internet Banking – Opening of Insurance sector for private players, FDI and its impact on Banking and Insurance Sector in India	4		
	Logistics: Net working – Importance – Challenges	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 ×2 div = 20

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: FYB.COM – G,H

SEMESTER: 1st MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE II

The learners will be able to :

1. To introduce learners with different concepts and importance of E-commerce.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE 4 E-COMMERCE	Introduction: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce	4	Introduction To E – Commerce, Dhawan, Nidhi, International Book House	Lecture and discussion . Flow charts.
	Types of E-Commerce:Basic ideas and Major activities of B2C,B2B, C2C.	4		
	Present status of E-Commerce in India:Transition to E-Commerce in India, E-Transition Challenges for Indian Corporates; on-line Marketing Research.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 ×2 div = 22

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: FYBCOM (ALL DIVISIONS) SEMESTER: II (Subject : NSS FC II)

MONTH: DECEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 **Volunteerism & Communication Skills**	**UNIT -I Concept of Volunteerism Meaning & Features** Need of Training for volunteerism Role Models of Volunteerism in India Leadership - Meaning & Attributes Communication Skills - Meaning. Types & Importance **UNIT - II Strategic Planning** - Meaning, Characteristics, Requirement of Successful implementation of Programmes. Importance of Planning and Limitations of Planning	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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SIGNATURE OF THE H.O.D (Accountancy)

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TEACHING PLAN (UNIT PLAN)

UNIT-2 **Socio-Economic Survey of Village/Slum adoption**			Service Scheme Manual,2009.	
	UNIT I- Meaning & Needs of Socio-Economic Survey • Process of Socio-Economic Survey ✓ Design of Questionnaire (Population, Literacy, Family) ✓ Design of Interview, Education, Income Data Analysis (Introduction of Different Tools). **UNIT - Il Introduction of various Government Agencies necessary for Policy making of Development.** ✓ Census ✓ National Sample Survey Organization (NSSO) ✓ National Family Health Survey (NFHS) ✓ Introduction of various schemes introduce by Govt. for the Socio Economic	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

	Upliftment of the Farmers and Rural Populations			
Unit 3 Special Camp	**UNIT – I Nature & Objectives of Activities** • Selection of Camp Site • Identification of Specific Theme • Co-ordination with Local Planning Government and other Agencies. • Ice breaking &team building activities. **UNIT - II Feedback / Evaluation** Post Camping activities	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
	UNIT - I Structure of Government Organisations and Non – Government Organisations (Co-ordination of National Service Scheme (NSS) with Government Organisations (GO) and Non – Government Organisations (NGO)). Grants for NSS From GO's for Activities	13	1. Service Scheme Manual (Received) Government of India Ministry of	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT4 : **Government Organisations / Non – Government Organisations**	• Regular Activities • CampingActivities • Other Programme Development Scheme E.g. HIV-AIDS-MADAC, Blood Donation		Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Delcy Lopes   DEPARTMENT: Accountancy   CLASS: F.Y.B. Com.   SEMESTER: I (Subject : Financial Accounting)

MONTH: DECEMBER - MARCH   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit - 1	**Accounting for Incomplete Records-** Introduction, Entries, Format. Opening Statement of Affairs. Practical Problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2	**Consignment Accounts-** Introduction to consignment, Consignee, Consignor. Format and journal entries for the same. Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -3	**Branch Accounts** Meaning, types, Stock system, Stock – Debtor system Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Unit – 4	**Fire Insurance claims** Meaning, features, formula, format, practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: F.Y.BCom SEMESTER: II Subject: FINANCIAL ACCOUNTING

MONTH: DEC, JAN, FEB & MAR ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3 & 4	**Accounting for Incomplete Records** • Introduction, Meaning, Types & Features • Introduction Of Conversion Method • Double Vs. Single Entry System • Bills Receivable & Bills Payable Account • Total Debtors & Total Creditors Account • Cash /Bank and Expenses Account • Problems on Preparation of Final Account of Proprietary (Conversion Method)	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Consignment Accounts Accounting for Consignment Transactions Valuation of Stock (at Cost Price & at Invoice Price) Invoicing of Goods at Higher Price & Practical problem solved	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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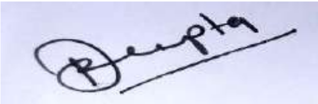
TEACHING PLAN (UNIT PLAN)

	Branch Accounts Meaning / Classification of Branches Accounting for Dependent Branch (at Cost Price & at Invoice Price) Debtors Method Practical Problem Solve Stock and Debtors Method Problems Solved on the same	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Fire Insurance Claim • Introduction & Meaning • Computing Loss with Stock on Date of Fire, Salvage & Actual Loss • Computing Claim With & Without Average Clause • Memorandum Trading Account • Total Debtors & Total Creditors Account to Ascertain Credit/Cash Sale and Purchase • Problems Solved on the same	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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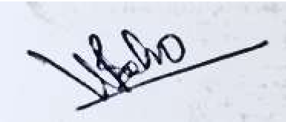

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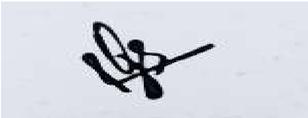

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Snehal S. Jadhav DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: II (Subject : Environmental Studies)

MONTH: July ACADEMIC YEAR : 2022 - 2023

LEARNING OBJECTIVE/S: The learners will be able to acquire a knowledge about the Environment, its components and Environmental problems. It will help to create awareness about protection of environment and natural Resources.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental Studies - I	Unit I : Solid Waste Management for Sustainable Society : Classification of solid wastes – Types and Sources of Solid Waste ; Effects of Solid Waste Pollution- Health hazards, Environmental Impacts; Solid Waste Management – solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in urban and rural areas.	13	Essential of Ecology and Environment by S.V.S Rana. Online resources	Chalk and Board
	Unit–II:AGRICULTURE & INDUSTRIAL DEVELOPMENT. 1)Environmental Problems Associated with Agriculture :Loss of Productivity,Land Degradation,desertification. 2)Uneven Food Production–	13	SantraS.C.,2004,‘ Environmental Science’,New Central Book agencyPvtLtd,	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Hunger,Malnutrition and Food Security– Sustainable Agricultural practices. 3)Environmental Problems Associated with Industries–Pollution-Global Warming,Ozone Layer Depletion, Acidrain,- Sustainable Industrial practices.		Kolkata.	
	Unit–III:TOURISM AND ENVIRONMENT 1)Tourism:Meaning,Scope And Importance,Typology Of Tourism classification;Tourism potentials in India and challenges Before India;New Tourism Policy of India 2)Consequences Of Tourism:Positive and Negative Impacts on Economy, Culture and environment. 3)Ecotourism.	13	Saxena M. ,2000, N. 'Environmental Management', Rawat Publication,New Delhi. Environmental Management By N.K.Uberoi	Chalk and Board
	UNIT IV : Solid Waste Management for Sustainable Society : Classification of solid wastes – Types and Sources of Solid Waste ; Effects of Solid Waste Pollution- Health hazards, Environmental	13		Chalk and Board

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	Impacts; Solid Waste Management – solid waste management in Mumbai- Schemes and initiatives run by MCGM – role of citizens in waste management in urban and rural areas.			
	MapfillingkonkanMap	02	Sheth Publication & Vipul Prakashan	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SMITA KHAIRE __ DEPARTMENT: Commerce (Interdisciplinary)__CLASS: _F.Y.B.COM__SEMESTER: II__ (Subject : _EVS_______)

MONTH: _December-March___________ ACADEMIC YEAR: _2022-23_________

LEARNING OBJECTIVE/S: _The learners will be able to acquire a knowledge and understanding about the Environment, its components and Environment problems. It will help to create awareness about protection of the Environment.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Environmental studies (K ,L,M)	Unit 1: Solid waste management for sustainable society Classification of solid waste- types and sources of solid waste; effects of solid waste pollution- Health hazards, Environmental impact; Solid Waste Management Solid Waste Management in Mumbai – schemes and initiatives by MCGM role of citizen in waste management in urban and rural areas.	13	Environmental Science by Santra S.C	Lecture method Chalk-Board Method
	Unit 2: Agricultural and Industrial development Environmental problems associated with Agriculture; loss of productivity, Land degradation, Desertification, uneven food production – Hunger, Malnutrition and food security; Sustainable Agricultural Practices. Environmental problems associated with Industries; Pollution, Global warming, Ozone layer depletion, Acid rain, Sustainable Industrial practices- Green business and Green consumption, Corporate social responsibility towards environment.	13	Essential of Ecology and Environment by S.V.S Rana.	Lecture method Chalk-Board Method

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TEACHING PLAN (UNIT PLAN)

	Unit 3: Definition, Meaning, Nature, Scope, importance of Tourism, Typology of Tourism, Tourism Potentials in India, Challenges faced by India, National Tourism Policy, Impact of Tourism on Economy, Culture and Environment, Ecotourism.	13		Lecture method Chalk-Board Method
	Unit 4: Environmental Movements and Management: Environmental movements in India: Save Narmada Movement, Chipko Movement, Appiko Movement, Save Western Ghats Movement; Environmental Management: Concept, need and relevance; Concept of ISO 14000 and 16000; Concept of Carbon Bank and Carbon credits, EIA, Ecological footprint; Environmental protection Acts; Concept and components of Geospatial technology Application of GST in Environmental management.	13	Environmental management by H.V. Jadhav	Lecture method Chalk-Board Method
	Map filling of Konkan and Mumbai	4	Sheth and Vipul Publication	Lecture method Chalk-Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_13___

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: COMMERCE CLASS: FYBCOM(A,B,C,D) SEMESTER: II

(Subject: FOUNDATION COURSE - II) MONTH: DEC- MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: By the end of the session Students will be able to:

The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

PER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	Concepts of liberalization, privatization and globalization. Growth of information technology and communication and its impact manifested in everyday life. Impact of globalization on industry: changes in employment and increasing migration. Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 2 Human Rights	a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD

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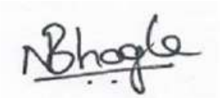
TEACHING PLAN (UNIT PLAN)

	d] Fundamental Rights in Constitution			• INTERACTIVE METHOD
UNIT 3 Ecology	a] Concept of environment & ecology. b] Importance of environmental studies, Environment as a Natural capital & quality of human life. c] Environmental Degradation, Causes, Impact on human life d] Sustainable Development – Concept, Components e] Poverty & Environment	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
UNIT 4 Understanding Stress & Conflicts	Causes of stress & Conflicts in individual & society. Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotypying & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD



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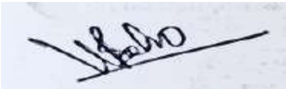

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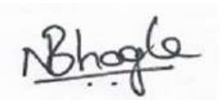
TEACHING PLAN (UNIT PLAN)

UNIT 5 Managing stress & conflict in Contemporary Society	Types of conflicts and use of coping mechanisms for managing individual stress. Maslow’s theory of self-actualisation. Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	10	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF- JINAL CHOHAN DEPARTMENT: COMMERCE CLASS: FY BCOM SEMESTER: II (Subject : COMMERCE -II

MONTH: November - March ACADEMIC YEAR: 22-23

LEARNING OBJECTIVE/S: TO GAIN THE KNOWLEDGE OF MANAGEMENT

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1	.Introduction : Meaning, Characteristic, Scope and Classification of Services – Importance of Service sector in the Indian Context. • Marketing Mix for Services: Consumer Expectations, Services Mix, Product, Place, Price, Promotion, process of services delivery, Physical evidence and people. • Service Strategies:	10	Principles of management by Philip Kotler And Essential of Management by Koontz	CHALK & DUSTER
UNIT 2	Introduction: Concept of organized and unorganized retailing , Trends in retailing, growth of organized retailing in India, Survival strategies for unorganized Retailers • Retail Format: Store format, Non – Store format, Store	10		

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TEACHING PLAN (UNIT PLAN)

UNIT 3	Planning, design and layout • Retail Scenario: Retail Scenario in India and Global			
	ITES Sector: Concept and scope of BPO, KPO, LPO and ERP • Banking and Insurance Sector: Logistics: Net-working – Importance – Challenges.	10		
	Introduction: Meaning, Features, Functions andScope of E-Commerce-Importance andLimitations of E-Commerce			
UNIT 4	Types of E-Commerce: Basic ideas and Major activities of B2C,B2B, C2C. • Present status of E-Commerce in India: Transition to E-Commerce in India, E-Transition Challenges	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___40_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D)

SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II	**Concept of real functions**: constant function, linear function, xn , ex , ax , log x. Demand, Supply, Total Revenue, Average Revenue, Total cost, Average cost and Profit function. Equilibrium Point, Break-even point.	06	Sheth Publication	Chalk and board

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Unit I : Functions, Derivatives and Their Applications	**Derivative of functions**: i. Derivative as rate measure, Derivative of xn , ex , ax , log x. ii. Rules of derivatives: Scalar multiplication, sum, difference, product, quotient (Statements only), Simple problems. Secondorder derivatives. iii. Applications: Marginal Cost, Marginal Revenue, Elasticity of Demand. Maxima and Minima for functions in Economics and Commerce.	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom

(A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit II : Interest and Annuity:	**Interest:** Simple Interest, Compound Interest (Nominal & Effective Rate of Interest),. Calculations involving upto 4 time periods.	06	Sheth Publication	Chalk and board
	Annuity: Annuity Immediate and its Present value, Future value. Equated Monthly Installments (EMI) using reducing balance method & amortization of loans. Stated Annual Rate & Affective Annual Rate Perpetuity and its present value. Simple problems involving up to 4 time periods	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

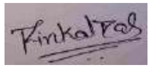
NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRILACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit III: Bivariate Linear Correlation and Regression	**Correlation Analysis**: Meaning, Types of Correlation, Determination of Correlation: Scatter diagram, Karl Pearson's method of Correlation Coefficient (excluding Bivariate) and Spearman's Rank CorrelationCoefficient.	06	Sheth Publication	Chalk and board
	Regression Analysis: Meaning, Concept of Regression equations, Slope of the Regression Line and its interpretation. Regression Coefficients (excluding Bivariate Frequency Distribution Table), Relationship between Coefficient of Correlation and Regression Coefficients , Finding the equations of Regression lines by method of Least Squares.	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



SIGNATURE OF THE STAFF

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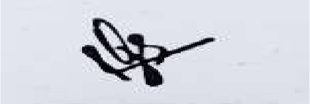

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit IV : Time series and Index	**Time series:** Concepts and components of a time series. Representation of trend by Freehand Curve Method, Estimation of Trend using Moving Average Method and Least Squares Method (Linear Trend only). Estimation of Seasonal Component using Simple Arithmetic Mean for Additive Model only (For Trend free data only). Concept of Forecasting using Least Squares Method.	06	Sheth Publication	Chalk and board

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Numbers:	**Index Numbers:** Concept and usage of Index numbers, Types of Index numbers, Aggregate and Relative Index Numbers, Lasperye's, Paasche's, Dorbisch-Bowley's, Marshall-Edgeworth and Fisher's ideal index numbers, Test of Consistency: Time Reversal Test and Factor Reversal Test. Chain Base Index Nos. Shifting of Base year. Cost of Living Index Numbers, Concept of Real Income, Concept of Wholesale Price Index Number. (Examples on missing values should not be taken).	09	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RINKAL A. DAS DEPARTMENT: MATHEMATICS CLASS: FY.BCom (A,B,C,D) SEMESTER: II MONTH: DECEMBER- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Mathematical and Statistical Techniques-II Unit V : Elementary Probability Distributions	**Probability Distributions**: i. Discrete Probability Distribution: Binomial, Poisson (Properties and applications only, no derivations are expected) ii. Continuous Probability distribution: Normal Distribution. (Properties and applications only, no derivations are expected)	15	Sheth Publication	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani   DEPARTMENT: Accountancy   CLASS: FYBCOM   SEMESTER: II (Subject :Financial accounting)

MONTH: DEC-MARCH   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about the different methods of accounting used.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1: Module 2:	Chapter 1 Introduction to Incomplete Accounting records Meaning, define, scope, advantage and disadvantages, difference between Double entry system and Single entry system, practical problems 1 to 6 Consignment Accounts Meaning, difference between, practical problems	15 15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc
Module 3: Branch Accounts	Branch Accounts Meaning, types, Stock system, Stock – Debtor system Practical problems	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

Mezalani

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TEACHING PLAN (UNIT PLAN)

Module 4	Chapter 4 Fire Insurance claims Meaning, features, formula, format, practical problems 1 to 6	15	Financial Accounting by SN Maheshwari	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___60_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Padmaja Joshi DEPARTMENT: Commerce CLASS: FYBCOM SEMESTER: II Subject: Business Communication MONTH: Dec-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills.

- The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills.
- To make students aware of the importance of developing skills.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Group communication	1) Interviews: 2) meetings: 3) Committees & Conferences: 4) Public Relations:	15	Manan Publication, Sheth Publication,	Blackboard, Chalk, Google classroom

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

Unit 2 Business Correspondence	1) Trade Letters	15	Vipul Publication	Blackboard, Chalk, Google classroom
Unit 3: Languages and writing skills	1.Reports and business prospects 2.Summarisation 3.Tutorial activities	15		Blackboard, Chalk, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

P. N. Joshi

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:

Pallavi G Naik DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: II (Subject : BUSINESS ECONOMICS)

MONTH: NOVEMBER TO MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Make students learn micro economics application and it's application to business.

A sound knowledge of business Economics.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics II	Module I Market structure: perfect competition and Monopoly Ch 1 Market structure extreme cases of perfect competition and Monopoly, types of market structure Ch 2 perfect competition, meaning and features, behaviour of price TR,MR AND AR Ch 3 Equilibrium of firm and industry In perfect competition, Equilibrium of firm,short run and long run equilibrium of firm Ch 4 Monopoly, meaning, features, sources of Monopoly power Ch 5 Monopolistic competition, meaning features, short run and long run equilibrium and production and selling cost	8	Manan prakashan A.L Ahuja.	Google classroom Blackboard and chalk

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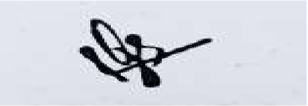

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TEACHING PLAN (UNIT PLAN)

	Ch 6 Oligopoly meaning, features,noncollussive and collusive Oligopoly			
	Ch 7 pricing practice I meaning degrees of price discrimination Dumping,conditions of price discrimination			
	Ch 8 pricing practice II Marginal cost pricing Cost plus pricing Transfer pricing Case studies			
	Ch 9 capital budgeting Importance of capital budgeting Importance of capital budgeting Steps in capital budgeting NPV,IRR, Comparison			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 8

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Commerce CLASS: FYBcom SEMESTER: II (Subject : EVS)MONTH: Jan - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Rights of Consumers, Information and protection of citizens and the Acts and also understand the different approaches to Ecology and Principles of Environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management forSustainable Society	1.Classificationofsolidwastes–TypesandSourcesof Solid Waste. 2.EffectsofSolidWastePollution-Healthhazards, Environmental Impacts 3.SolidWasteManagement. 4.solidwaste managementin Mumbai-Schemes andinitiativesrunby MCGM – roleofcitizensin wastemanagementinMumbai	10	Environmental studies: P.G. Shinde	▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

UNIT 2 Agricultureand Industrial Development				
	1.EnvironmentalProblemsAssociatedwithAgriculture: Loss of Productivity, Land Degradation ,desertification 2.UnevenFoodProduction–Hunger,Malnutritionand Food Security – Sustainable Agricultural practices.3.EnvironmentalProblemsAssociatedwithIndustries– pollution. 4.Global warming,OzoneLayer Depletion, Acid rain. 5.SustainableIndustrialpractices – Green BusinessandGreenConsumerism,CorporateSocial Responsibility	13	Environmental studies: P.G. Shinde	

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TEACHING PLAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
FC Unit III Tourism and Environment	1.Tourism:Meaning,Nature,Scopeandimportance 2.Typologyoftourism-classification 3.TourismpotentialsinIndiaandchallengesbeforeIndia, New tourism Policy of India 4.Consequencesoftourism:PositiveandNegativeImpacts onEconomy, Culture and environment 5.Ecotourism	13		▪ Chalk – Board method ▪ Discussions

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN

Unit IV Environmental Movement and Management	1. Environmental movements in India: Save Narmada Movement,ChipkoMovement,AppikoMovement,Save Western Ghat and Save Jaitapur 2. Environmental Management: Concept, need and relevance;ConceptofISO14000and16000;Conceptof Carbon Bank and Carbon Credit 3..EIA- EnvironmentProtection Acts 4.ConceptandcomponentsofGeospatialTechnology-Applications of GST in Environmental Management.	3		

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN

Unit V Reading of ThematicMaps and Map Filling	1.MapfillingofKonkan(Environmentallysignificant features)using point, line and polygon segment. 2.MapfillingofMumbai(Environmentallysignificant features) using point, line and polygon segment.	04		

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TEACHING PLAN

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Commerce CLASS: FYBcom SEMESTER: II (Subject : EVS)MONTH: Jan - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Rights of Consumers, Information and protection of citizens and the Acts and also understand the different approaches to Ecology and Principles of Environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Solid Waste Management forSustainable Society	1.Classificationofsolidwastes–TypesandSourcesof Solid Waste. 2.EffectsofSolidWastePollution- Healthhazards, Environmental Impacts 3.SolidWasteManagement. 4.solidwaste managementin Mumbai-Schemes andinitiativesrunby MCGM – roleofcitizensin wastemanagementinMumbai	10	Environmental studies: P.G. Shinde	▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

UNIT 2 Agricultureand Industrial Development				
	1.EnvironmentalProblemsAssociatedwithAgriculture: Loss of Productivity, Land Degradation ,desertification 2.UnevenFoodProduction–Hunger,Malnutritionand Food Security – Sustainable Agricultural practices.3.EnvironmentalProblemsAssociatedwithIndustries– pollution. 4.Global warming,OzoneLayer Depletion, Acid rain. 5.SustainableIndustrialpractices – Green BusinessandGreenConsumerism,CorporateSocial Responsibility	13	Environmental studies: P.G. Shinde	

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TEACHING PLAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
FC Unit III Tourism and Environment	1.Tourism:Meaning,Nature,Scopeandimportance 2.Typologyoftourism-classification 3.TourismpotentialsinIndiaandchallengesbeforeIndia, New tourism Policy of India 4.Consequencesoftourism:PositiveandNegativeImpacts onEconomy, Culture and environment 5.Ecotourism	13		▪ Chalk – Board method ▪ Discussions

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TEACHING PLAN

Unit IV Environmental Movements and Management	1. Environmental movements in India: Save Narmada Movement,ChipkoMovement,AppikoMovement,Save Western Ghat and Save Jaitapur 2. Environmental Management: Concept, need and relevance;ConceptofISO14000and16000;Conceptof Carbon Bank and Carbon Credit 3..EIA- EnvironmentProtection Acts 4.ConceptandcomponentsofGeospatialTechnology- Applications of GST in Environmental Management.	3		

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TEACHING PLAN

Unit V Reading of ThematicMaps and Map Filling	1.MapfillingofKonkan(Environmentallysignificant features)using point, line and polygon segment. 2.MapfillingofMumbai(Environmentallysignificant features) using point, line and polygon segment.	04		

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TEACHING PLAN

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Accountancy

CLASS: S Y B Com (Div A) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

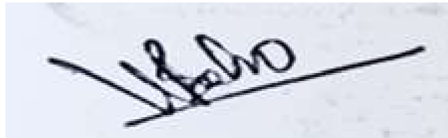
LEARNING OBJECTIVE/S:

The learners will be able to :

Understand the concepts of amalgamation, preparation of account of accounting for amalgamation of partnership firm and its accounting effect. The learners will be able to understand the need, procedure, accounting effect and treatment for conversion of partnership firm into a limited company.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy and Financial Management III	**Amalgamation of Firms** i) Realization method only ii) Calculation of purchase consideration iii) Journal / ledger accounts of old firms iv) Preparing Balance sheet of new firm v) Adjustment of goodwill in the new firm vi) Realignment of capitals in the new firm by current accounts / cash or a combination thereof Excluding Common transactions between the amalgamating firms	15	Shashi K. Gupta – "Contemporary Issues in Accounting", Kalyani Publishers. Ashok Sehgal – "Fundamentals of Financial Accounting", Taxmann's Publishers	GOOGLE CLASSROOM Group Discussion, Chalk & talk, Black-Board Method; Group Discussion
	Conversion / Sale of a Partnership Firm into a Ltd. Company	15		

	(i) Realisation method only (ii) Calculation of New Purchase consideration, Journal / Ledger Acco Preparing Balance sheet of new company	unts of old firms.		



TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRAKTANA KORE DEPARTMENT: Commerce CLASS: S.Y.B.Com (A) SEMESTER: III

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:
The learners will be able to understand basics of advertising.

UNIT	SUBTOPIC	NO. OF LECTURES ALLOTED	REFERENCES	TEACHING METHOD
UNIT I: INTRODUCTION TO ADVERTISING	• **Integrated Marketing Communication:** Concept and features, elements, role of advertising in IMC	3		Chalk & board method, discussion method
	• **Advertising:** Concept and features, evolution, active participants, benefits to business and consumers	4		

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TEACHING PLAN (UNIT PLAN)

	• **Classification of advertising:** Geographic area, media, audience, functions	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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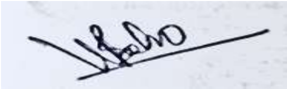

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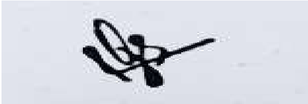

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: S.Y.B.Com (E,F) SEMESTER: III

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:
The learners will be able to understand basics of advertising.

UNIT	**SUBTOPIC**	**NO. OF LECTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD**
UNIT I: INTRODUCTION TO ADVERTISING	**Integrated Marketing Communication:** Concept and features, elements, role of advertising in IMC	3		Chalk & board method, discussion method
	Advertising: Concept and features, evolution, active participants, benefits to business and consumers	4		

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TEACHING PLAN (UNIT PLAN)

	Classification of advertising: Geographic area, media, audience, functions	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: SYBCOM SEMESTER: 3 (Subject : Financial Accounting)
MONTH: June - September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 Piecemeal Distribution	Introduction,Meaning, surplus Capital Method and Maximum loss method. Format of Excess Capital and Statement of Distribution. Practical problems	15	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Patil DEPARTMENT: Commerce CLASS: S.Y.B.Com (Div. J) SEMESTER: III

MONTH: June to Sept. ACADEMIC YEAR: 2022-2023 Subject: Advertising

LEARNING OBJECTIVES:The learners will be able to understand basics of advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
UNIT I: INTRODUCTION TO ADVERTISING	Communication: Concept and features, elements, role of advertising in IMC Advertising: Concept and features, evolution, active participants, benefits to business and consumers Classification of advertising: Geographic area, media, audience	14		Chalk & board
UNIT II ADVERTISING	Advertising agency: Features, structure and services, types of Ad agencies, agency selection criteria, agency compensation	13		Chalk & board

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AGENCY	Agency and client: Maintaining agency-client relationship, reasons of client turnover, ways of avoiding client turnover, creative pitch Careers in advertising: Skills for career in advertising, career options in advertising, freelancing as a career option			
UNIT III ECONOMIC AND SOCIAL ASPECTS OF ADVERTISING	Economic aspects: Economic impact of advertising, effect on consumer demand, effect on monopoly and competition, effect on consumer price Social aspects: Ethical issues, social and cultural issues, positive and negative influence on Indian culture PRO BONO/SOCIAL ADVERTISING: Pro bono advertising, social advertising through DAVP, self regulatory laws, role of ASCI	11		Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 38

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR DEPARTMENT: COMMERCE CLASS: SYBCOM H, I, J, K, L SEMESTER: III

SUBJECT - BUSINESS LAW -I MONTH: JUNE – OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to know the meaning of the terms Agreement and contract and note the Distinction between the two.

The learners will be able to know the Concepts of sale and agreement to sell, Definitions, Conditions and Warranty, and Rights of an unpaid seller.

The learners will be able to know the History of negotiable instrument and its types.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module I Indian Contract Act-1872 part -I	Chapter :I-Contract- Definition of Contract and Agreement, Essentials of Valid Contract, Classification of contracts. Chapter :II- Offer and Acceptance - Rules of valid offer and acceptance, Counter offer, standing or open offer, distinguish between offer and invitation to offer.Concept of Communication and Revocation of offer and acceptance.	10	The Indian Contract Act,1872 -Avtar singh Business Law- kapoor N. D.	1) Lecture and Discussion 2) Case Study 3) Black Board, Chalk and Duster

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	Chapter : III- Capacity to Contract - Minor, Unsound Mind, Disqualified persons. Chapter :IV- Consideration - Concept and Importance of Consideration, Legal rules of Consideration, Exceptions to the rule, 'No Consideration No Contract' Unlawful Considertion.		Business law- I, Kalaivani Venkataraman, Vipul prakashan	
Module No.II Indian Contract Act- 1872 Part II	Chapter :I- Consent - Agreements in which consent is not free- Coercion, undue Influence, Misrepresentation Fraud, Mistake. Chapter: II - Void Agreements - Concept, Void Agreement under Indian Contract Act. Chapter : III - Contingent Contract, Quasi Contract, Concept of E-Contract & Legal Issues in formation and discharge of E- Contract. Concept of performance of contract. Chapter : IV- Modes of Discharge of Contract, Remedies on breach of Contract.	10		
Module No. III Special Contracts.	Chapter :I- Law of Indemnity & Guarantee - Concept, Essentials elements of Indemnity and Guarantee, Contract of Indemnity vs. Guarantee, modes of Discharged of Surety.			

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	Chapter : II- Law of Bailment - Concept, Essentials of Bailment, Kinds of Bailment, Rights and Duties of Bailor and Bailee. Chapter - III Law of Pledge - Concept, Essentials of valid Pledge, Lien- Concept, Difference Between Pledge and Lien, Rights of Pawnor and Pawnee Chapeter IV - Law of Agency - Concept, Modes of Creation of Agency, Modes of Termination of Agency, Rights and Duties of Principal and Agent.	10		
Module IV The Sale of Goods Act-1930	Contract of sale- concept, Essentials elements of contract of sale, Distinction between sale and agreement to sell.Distinguish between sale and Hire purchase agreement, types of goods. Effects of destruction of goods Conditions and Warranties- concept, Distinguish between conditions and warranties, Implied Conditions and Warranties, Concept of Doctrine of Caveat emptor - Exceptions. Property - Concept, rules of transfer of property Unpaid seller - Concept, rights of an unpaid Seller, Remedies for breach of contract of sale, Auction Sale - Concept, Legal provisions.	10		

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Module V The Negotiable instruments Act 2015	Negotiable instruments - Concept, Characteristics, Classification of Negotiable instruments Maturity of instruments. Promissory Note and Bill of Exchange Concept, Essentials of promissory Note, Bill of Exchange, Essentials features of promissory note and bill of exchange, kinds promissory note bill of exchange, cheque concept, types & Crossing of cheque, Distinguish between bill of exchange & cheque, Dishonour of cheque - concept & penalties. Miscellaneous provisions - parties to Negotiable instruments Holder, Holder in due course, Rights & Privileges of holder in due course, payment in due course, noting & protest.	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: SYBCOM SEMESTER: III (Subject :Management Account)

MONTH: June 2022 to Nov 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Understand concept of Working Capital

To evaluate various projects with techniques of capital budgeting

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Working Capital	Working Capital Requirement	15	Manan Publication	Chalkboard, Google Classroom
	Level ofActivity			
	Margin of Safety			
Capital Budgeting	Payback Period, Net Present Value, Profitability Index, Average Rate of Return	15	Manan Publication	Chalkboard, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Pallavi G. Naik DEPARTMENT: B.Economics CLASS: SYBCOM SEMESTER:SEM III (Subject : B.ECONOMICS)

MONTH: JUNE TO NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Micro Economics and macro economics understanding of business aspects.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module-1 Introduction to macro Economics Module II Basic concepts of Keynesian Economics Module- III Post Keynesian development of macro economics	Circular flow of income, measurement of National income, trade cycle, Say's law of Market		JIngan	Blackboard chalk and duster
	Theory of Effective demand, consumption function, investment function, Theory of Multiplier, Liquidity preference theory of interest		H.L.Ahuja	Google classroom
	IS-LM model, Phillips curve-unemployment- stagflation		Manan prakashan	PPT
	Integration of commodity, Phillips curve		Seth publication	
	Stagflation causes and consequences Money supply demand for money Money and prices Inflation I Inflation II			

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Module IV Money prices and inflation				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 8

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: _____Business Economics____ CLASS: ____SYBCOM___
SEMESTER: III__ (Subject : ________BUSINESS ECONOMICS____III_____)

MONTH: ______JUNE TO OCTOBER______ ACADEMIC YEAR: ____2022-23______

LEARNING OBJECTIVE/S: ___The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	INTRODUCTION • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importanceclosed and open economy models • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National	4 lectures per week	Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York Ahuja. H.L., Modern Economics — S.Chand	Chalk Duster Ppt, Google meet, Google Classroom, Discussion, quiz,Test,assignment

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TEACHING PLAN (UNIT PLAN)

	Income and Economic Welfare. • Trade Cycles: Features and Phases • Classical Macro economics : Say's law of Markets - Features, Implications and Criticism 2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest		Company Ltd. New Delhi. Blanchard Olivier (2000), Macro Economics, Englewood Elitt, Prentice Hall Bouman John, Principles of Macro Economics Dornbush , Rudiger, Fisher Stanley and Startz, Richards Macroeconomics, Nineth edition	

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment : Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics 4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money		2004 Tata-Mac Graw Hill, New Delhi. Dwivedi, D.N. (2001), Macro Economics: Theory and Policy, Tata-Mac Graw Hill, New Delhi. Friedman Hilton (1953) Essays in Positive Economics, University of Chicago Press, London. Gregory .N. Mankiw,	

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TEACHING PLAN (UNIT PLAN)

	• Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of InflationNature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting		Macroeconomics, Fifth Edition (2002) New York:Worth Publishers Jhingan, M.L., Principles of Economics — Vrinda Publications (P) Ltd. Shapiro, E (1996), Macro-Economic Analysis , Galgotia Publication, New Delhi. Vaish .M.C. (2010) Macro	

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TEACHING PLAN (UNIT PLAN)

			Economic Theory 14th edition, Vikas Publishing House(P)Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **S.Y.BCOM** SEMESTER: I (Subject : **BUS. ECONOMICS-III**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

1. The student must be able to understand **Macroeconomics, Circular flow of aggregate income and expenditure The Measurement of National Product, Trade Cycles, Classical Macro economics, Say's law of Markets.**

2. The student must be able to understand **Basic concepts of Keynesian economics.**

3. The student must be able to understand post keynesian developments in macro economics.

4. The student must be able to understand Money , prices and inflation.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics - III	**Unit I:Introduction**		*Mehta, P.L.: Managerial Economics*	Google classroom, Google Forms

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TEACHING PLAN (UNIT PLAN)

Money Supply:	**macroeconomics:** Meaning, Scope and Importance. • **Circular flow of aggregate income and expenditure** and its Importance-closed and open economy models • **The Measurement of National Product:** Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National Income and Economic Welfare. • **Trade Cycles:** Features and Phases • **Classical Macro economics : Say's law of Markets** - Features, Implications and Criticism	**10 lectures**	*– Analysis, Problem and Cases*	
	Unit -II **The Principle of Effective Demand:** Aggregate Demand and Aggregate Supply • **Consumption Function:** Properties, Assumptions and Implications	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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TEACHING PLAN (UNIT PLAN)

	• **Investment function and Marginal Efficiency of capital** • **Investment Multiplier effect on Income and Output:** Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • **Relevance of Keynesian theory tools to the developing countries**			
	Unit -III **The IS -LM model** of integration of commodity and money markets • **Inflation and unemployment** : Philips curve • **Stagflation** : meaning, causes, and consequences • **Supply side economics :** Basic propositions and critical appraisal	**10 lectures**		
	Money Supply:	**10 lectures**		

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TEACHING PLAN (UNIT PLAN)

	Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • ***Demand for Money*** : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money • ***Money and prices*** : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • ***Inflation*** : Demand Pull Inflation and Cost Push Inflation - Effects of Inflation- Nature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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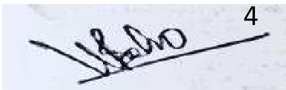

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: COMMERCE CLASS: SYB.COM-I
SEMESTER: III MONTH: June-October ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-III

The learners will be able to:

1. To identify and demonstrate process for making short and long term plans.
2. To recognize the importance of seeking Information before making decisions.
3. To make student able to work in group, problem solving and organizational skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2: PLANNING & DECISION	▪ Planning- steps, Importance, Components, Coordination- Importance	4	Management - James Stoner	1. Lecture and discussion. 2. Flow charts. 3. Online teaching learning tools (google meet, google form Google classroom, PPTs)
	▪ M.B.O – Process, Advantages, Management By Exception-Advantages; Management Information System – Concept, Components	3	Management: Global Prospective – Heinze Weihrich & Harold Koontz	
	▪ Decision Making – Techniques, Essentials of a Sound			

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TEACHING PLAN (UNIT PLAN)

MAKING	Decision Making, Impact of Technology on Decision Making	3	Principles of Management	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10×1div = 10

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – L, M, N
SEMESTER: III MONTH: JUNE-OCTOBER ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-III

LEARNING OBJECTIVE/S:

1. To make the learners aware about conceptual knowledge and evolution of Management.
2. To familiarize the learners with the functions in Management.

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
MODULE 1	Management- Concept, Nature, Functions, Managerial Skills & Competencies	03	Management Today Principles& Practice- Gene Burton, ManabThakur, Tata McGrawHill,PublishingCo. Ltd.Management – JamesA.F.Stoner, Prentice Hall, Inc .U.S.A	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Evolution of Management Thoughts Classical Approach: Scientific Management – F.W.Taylor'sContribution Classical Organisation Theory: HenriFayol's Principles Neo Classical:	03		

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TEACHING PLAN (UNIT PLAN)

Introduction To Management	Human Relations Approach – EltonMayo’sHawthorne experiments			
	Modern Management Approach-PeterDrucker’s Dimensions of Management, Indian Management Thoughts: Origin & Significance of Indian Ethos to Management.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*3=33

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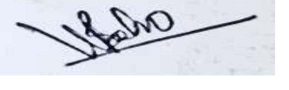

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: SYBCOM (G & H) SEMESTER: III (Subject : COMMERCE III)

MONTH: JUNE TO SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To gain the knowledge of management, evolution of management, to study different elements of management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 2- Planning & Decision Making	**Planning -** Steps, Importance, Components, Coordination - Importance **M.B.O -**Process, Advantages, Management By Exception- Advantages; Management Information System-Concept, Components **Decision Making -** Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.	10	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and talk method
UNIT 3 – ORGANISING	**Organising** – steps, organisational structures	12	Principles of management by Philip Kotler And Essential of	Chalk and talk method

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

	Departmentation – Meaning , base, span of management, factors influencing span of management, Tall / Flat organisation **Delegation of Authority** – Process, barriers, principles, decentralization- factors influencing, Centralisation v/s decentralisation		Management by Koontz	
Unit 4 – Directing and Controlling	**Motivation –** Concept, Importance , Factors influencing Importance of Communication, Barriers to Effective communication **Leadership** : Concept, Functions, Styles , Qualities of good leader **Controlling** : Concept , steps , Essentials of good control system Techniques of controlling – PERT , CPM , Budgetary control, Management Audit	12	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and talk method
	Classical Organisational Theory – Henry Fayol Principles **Neo Classical** : Human Relations Approach – Elton Mayo's Hawthome Experiments	08	Principles of management by Philip Kotler And Essential of	Chalk and talk method

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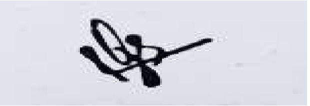

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TEACHING PLAN (UNIT PLAN)

Unit 1 – Introduction of Management	**Modern Management Approach** – Peter Drucker's Dimensions of Management , Indian management Thoughts – Origin and significance of Indian Ethos to Management.		Management by Koontz	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 42

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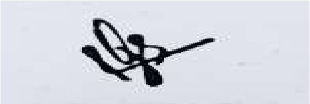

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: SYBCOM (ALL DIVISIONS) SEMESTER: III (Subject : NSS FC III)

MONTH: JUNE TO SEPTEMBER   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about history of NSS, NSS Programme at National & State level, Meaning of NSS symbol, importance of NSS

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 2 – Disaster Preparedness & Disaster Management	**UNIT- I BASICS OF DISASTER PREPAREDNESS** Disaster – Meaning and types Disaster Preparedness its meaning and methods Helpline nos, First Aid Techniques Breathing Techniques, Rescue Methods CPR Various types of knots and stretchers **UNIT -Il DISASTER MANAGEMENT**	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

	Concept, Disaster Cycle, Role of technology in disaster response, Disaster management cell at different levels and its functioning , Sendai Convention .		Service Scheme Manual,2009.	
Unit 3 – Health Hygiene and Diseases	**Meaning of Health and Hygiene :** Indicator (Physical and Mental) Role of Health in development Public Health System in India Maintenance of Hygiene and sanitation **Diseases and Disorders – Preventive Campaigning** Diseases and disorders Communicable and Non -communicable diseases	13	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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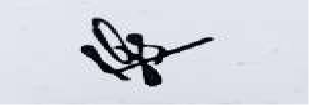

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TEACHING PLAN (UNIT PLAN)

	Preventive campaign in Malaria, TB, Dengue, Cancer, HIV/AIDS, diabetes, malnutrition			
Unit -4 ENVIRONMENT AND ENERGY CONSERVATION	Unit 1 : Environment and Environment Enrichment Programme Meaning, features, issues, Conservation of natural resources and sustainability in environment with respect to water conservation types. Bandhara, CCT, rain water harvesting Environmental Movements in India Unit 2 : Energy and energy conservation programme Energyv-concept and features Conventional and non conventional energy EnergyvConservation meaning and importance	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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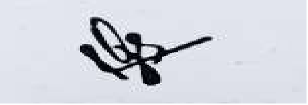

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TEACHING PLAN (UNIT PLAN)

Unit 1 – Value System and Gender Sentivity	**Value System :** Meaning, types, Human values and social responsibilities, Indian Value system ,eleven vows **Gender Sensitivity and Women Empowerment** Concept of gender, causes behind gender related problems, remedial measures, Women empowerment – meaning , various schemes in India	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 47

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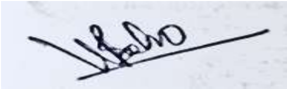

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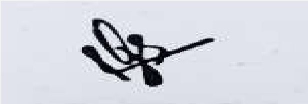

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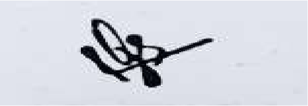

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TEACHING PLAN (UNIT PLAN)

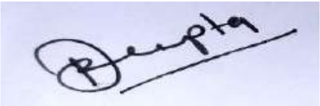
NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: S.Y.BCom SEMESTER: III Subject: MANAGEMENT ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2 & 3	**Introduction to Management Accounting**	04	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Ratio Analysis • Balance Sheet Ratios • Revenue Statement Ratios • Composite Ratios	11	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30



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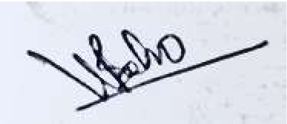

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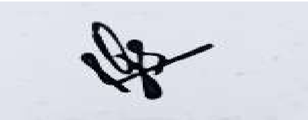

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: _III_ (Subject: Business Economics III

MONTH: June-October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand basic concepts of macroeconomics

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics III	2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism an Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest	2 lectures per week	MACRO ECONOMIC THEORY - M.L.JHINGAN PRINCIPLES OF MACRO ECONOMICS - MANKIW	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment: Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics	2 lectures per week		
	4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.Mala Khanchandani DEPARTMENT: : Commerce CLASS: S.Y.B.Com SEMESTER: III

Subject : Foundation Course III

MONTH: June to September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to:

- To prevent Human Rights violations and to safeguard the Fundamental rights of every citizen of India.
- To understand the competencies related to communicating with those from other cultures.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FCIII Unit 1 Human Rights Violations And	D **Children**- Constitutional and legal rights, forms of violations, Redressal mechanism. E **People with disabilities**, Minorities, and the elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	06	Michael Vaz Aurara vaz: foundation course.	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples

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TEACHING PLAN (UNIT PLAN)

Redressal			Newspapers	❖ Story telling Offline Projects assigned
Unit 2 Dealing with Environmental Concerns	**A Concept of Disaster & Effects on Human Life** – Physical, Psychological Economic & Social Effects **B Case study of Environmental Disaster** **C Dealing with Disaster**:-Factors to be considered in prevention Mitigation & Disaster Preparedness. **D Human Rights Issues in addressing Disaster**: - Issues related to compensation, equitable and fair distribution of relief & humanitarian approach to resettlement & rehabilitation.	10	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling Offline Projects assigned
Unit 3Science & Technology-1	**A Science & Technology:-**The Ancient Cultures ,The Classical Era, the middle ages,The Renaissance, the age of reason & enlightenment. B **Nature of Science:-**principal & Characteristics science as Empirical practical ,theoretical, validated knowledge C **Science & Superstition** – Roll of Science in Exploding myth,	08	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling

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TEACHING PLAN (UNIT PLAN)

	blind belief & prejudice, science & scientific temper, science as fundamental duty of Indian Citizen			Offline Projects assigned
Unit 4 Soft Skills for Effective interpersonal Communication	Part A 1. Effective Listening : Importance of Listening, Features of Listening. 2. Guidelines to develop effective listening skills. 3. Verbal Communication: Oral Communication, Advantages of oral communication,Disadvantages of Oral Communication 4.Written Communication :Advantages & Disadvantages of Written Communication 5. Non Verbal Communication:Body Language, Para language,Silence,Space Surrounding & Time, Advantages & Disadvantages of Non Verbal Communication 6.Public Speaking & Presentation Skills 7. Barriers to Effective Communication 8/ Tips for effective Communication Part B Formal & Informal Communication – Writing Formal	12	Michael Vaz Aurara vaz: foundation course. Newspapers	❖ Google Classroom ❖ Chalk and Talk Method ❖ Group Discussion ❖ Explanation with examples ❖ Story telling Offline Projects assigned

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TEACHING PLAN (UNIT PLAN)

	applications, preparing group discussions, interviews & presentations Part C Leadership skills & self improvement, Style of leadership & team building			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 36

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tejaswini Naik DEPARTMENT: Accountancy CLASS: Sybcom c and d SEMESTER: 3 (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: _2022-23_________

LEARNING OBJECTIVE/S: learner will understand how to prepare final accounting while admitting partner, how to calculate distribution of cash at the time of dissolution of parnership firm.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Financial accounting				
	1.partnership final account admission and final account. Solved 6 questions 2. Piecemeal distribution of cash- proportionate /excess capital method. Solved 6 questions	15 15	TAXMANN	Blackboard,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___30_

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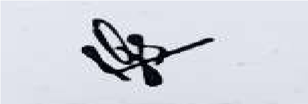

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ________REENA BEHERA___________________ DEPARTMENT: _____Business Economics____ CLASS: ____SYBCOM___
SEMESTER: III__ (Subject : ________BUSINESS ECONOMICS____III_____)

MONTH: ______JUNE TO OCTOBER______ ACADEMIC YEAR: ____2022-23______

LEARNING OBJECTIVE/S: ___The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Module 1,2,3,4	INTRODUCTION • Macroeconomics: Meaning, Scope and Importance. • Circular flow of aggregate income and expenditure and its Importanceclosed and open economy models • The Measurement of National Product: Meaning and Importance of National Income Accounting- conventional and Green GNP and NNP concepts -National	4 lectures per week	Ackley.G (1976), Macro Economic Theory and Policy, Macmillan Publishing Co. New York Ahuja. H.L., Modern Economics — S.Chand	Chalk Duster Ppt, Google meet, Google Classroom, Discussion, quiz,Test,assignment

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TEACHING PLAN (UNIT PLAN)

	Income and Economic Welfare. • Trade Cycles: Features and Phases • Classical Macro economics : Say's law of Markets - Features, Implications and Criticism 2 BASIC CONCEPTS OF KEYNESIAN ECONOMICS • The Principle of Effective Demand: Aggregate Demand and Aggregate Supply • Consumption Function: Properties, Assumptions and Implications • Investment function and Marginal Efficiency of capital • Investment Multiplier effect on Income and Output: Assumptions, Working, Leakages, Criticism and Importance - paradox of thrift • Relevance of Keynesian theory tools to the developing countries Liquidity Preference Theory of Interest		Company Ltd. New Delhi. Blanchard Olivier (2000), Macro Economics, Englewood Elitt, Prentice Hall Bouman John, Principles of Macro Economics Dornbush , Rudiger, Fisher Stanley and Startz, Richards Macroeconomics, Nineth edition	

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TEACHING PLAN (UNIT PLAN)

	3 POST KEYNESIAN DEVELOPMENTS IN MACRO ECONOMICS • The IS-LM model of integration of commodity and money markets • Inflation and unemployment : Philips curve • Stagflation : meaning, causes, and consequences • Supply side economics 4 MONEY, PRICES AND INFLATION • Money Supply: Determinants of Money Supply - Factors influencing Velocity of Circulation of Money • Demand for Money : Classical and Keynesian approaches and Keynes' liquidity preference theory of interest - Friedman's restatement of Demand for money		2004 Tata-Mac Graw Hill, New Delhi. Dwivedi, D.N. (2001), Macro Economics: Theory and Policy, Tata-Mac Graw Hill, New Delhi. Friedman Hilton (1953) Essays in Positive Economics, University of Chicago Press, London. Gregory .N. Mankiw,	

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TEACHING PLAN (UNIT PLAN)

	• Money and prices : Quantity theory of money - Fisher's equation of exchange - Cambridge cash balance approach • Inflation : Demand Pull Inflation and Cost Push Inflation - Effects of InflationNature of inflation in a developing economy - policy measures to curb inflation- monetary policy and inflation targeting		Macroeconomics, Fifth Edition (2002) New York:Worth Publishers Jhingan, M.L., Principles of Economics — Vrinda Publications (P) Ltd. Shapiro, E (1996), Macro-Economic Analysis , Galgotia Publication, New Delhi. Vaish .M.C. (2010) Macro	

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TEACHING PLAN (UNIT PLAN)

			Economic Theory 14th edition, Vikas Publishing House(P)Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __SYBCOM G&H SEMESTER: III_ (Subject : COMMERCE III)

MONTH: June to October ____ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To gain the knowledge of management, evolution of management, to study different elements of management

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFEREN CE/S	EACHING METHOD/ ICT TOOLS USED
UNIT 1 – Introduction to Mangement	**Classical Organisational Theory** – Henry Fayol Principles **Neo Classical** : Human Relations Approach – Elton Mayo's Hawthome Experiments **Modern Management Approach** – Peter Drucker's Dimensions of Management , Indian management Thoughts – Origin and significance of Indian Ethos to Management.	8	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___8

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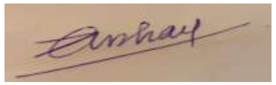
TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 2-Planning & Decision Making	**Planning** - Steps, Importance, Components, Coordination - Importance **M.B.O** -Process, Advantages, Management By Exception- Advantages; Manage[1]ment Information System-Concept, Components **Decision Making** - Techniques, Essentials of a Sound Decision Making, Impact of Technology on Decision Making.	**8**	Principles of management by Philip Kotler	Chalk and board method

Total number of lectures allocated to the unit -8

APER, UNIT, TITLE	SUBTOPIC	LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED

1



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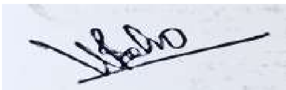

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TEACHING PLAN (UNIT PLAN)

UNIT 3 – ORGANISING	**Organising** – steps, organisational strucutures **Departmentation** – Meaning , base, span of management, factors influencing span of management, Tall / Flat organisation **Delegation of Authority** – Process, barriers, principles, decentralization- factors influencing, Centralisation v/s decentralisation	10	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

Total number of lectures allocated to the unit -10

APER, UNIT, TITLE	SUBTOPIC	LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 4- Directing and Controlling	**Motivation –** Concept, Importance , Factors influencing Importance of Communication, Barriers to Effective communication **Leadership** : Concept, Functions, Styles , Qualities of good leader **Controlling** : Concept , steps , Essentials of good control system Techniques of controlling – PERT , CPM , Budgetary control, Management Audit	8	Principles of management by Philip Kotler And Essential of Management by Koontz	Chalk and board method

Total number of lectures allocated to the unit -8

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: SYBCOM- K,L,M,N,O Subject- Advertising

SEMESTER: _III_______ MONTH: July- November_________ ACADEMIC YEAR: ___2022-23__________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand advertisement related terminologies, special purpose advertising and the importance of brand.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2: Advertising Agency	Ad Agency: Features, Structure and services offered, Types of advertising agencies, Agency selection citeria 2 Manan Prakashan Online teaching- PPT Agency and Client: Maintaining agency -client relationship, Reasons and ways of avoiding client turnover, Creative Pitch, Agency compensation 3 Manan Prakashan Online teaching-PPT Careers in advertising: Skills required for a career in advertising, Various career options, Freelancing career options	8	Manan Prakashan	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___8_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale DEPARTMENT: Commerce CLASS: SYBCOM- C, D,J,K,L,M,N,O Subject- Commerce

SEMESTER: _III_______ MONTH: July- November_________ ACADEMIC YEAR: ___2022-23_________________

LEARNING OBJECTIVE/S:
The learners will be able to : Know the basic concepts of Management, Planning, Decision making, Organizing and Directing and Controlling.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Chp 2: Planning and Decision Making	Planning: Steps, Importance, Components, Co-ordination- Importance	3	Manan Prakashan	Chalk and Duster
	MBO: Process, Advantages, MBE, MIS	3		
	Decision Making: Techniques, Essentials of a sound decision making, Impact of Technology on Decision making	3		

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TEACHING PLAN (UNIT PLAN)

Chp 3: Organising	Organising: Steps, Organisation structure Departmentation: Meaning, Bases, Span of Management, Factors influencing Span of Management, Tall and Flat organisation	3	Manan Prakashan	Chalk and Duster
	Delegation of Authority: Process, Barriers to Delegation, Principles of effective delegation, Decentralisation, Centralisation and Decentralisation	3		
Chp 4: Directing and Controlling	Motivation: Concept, Importance, Influencing Factor, Importance of communication, Barriers to effective communication Leadership: Concept, Functions, Styles, Qualities of good leader Controlling: Concept, Steps, Essentials of good control system, Techniques of controlling- PERT, CPM, Budgetary Control, Management Audit.	9	Manan Prakashan	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___24_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. Know & understand what is Management accounting, Users of Management Accounting, Importance of Management Accounting
2. Know & understand Analysis tools of management accounting i.e. Vertical Statement, Trend Analysis, Comparative Statement, Common Size Statement
3. Know & understand what is Ratio Analysis and different types of accounting ratios

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Management Accounting Unit 1	Introduction to Management Accounting	4	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 2	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 3	Ratio Analysis • Balance Sheet Ratios • Revenue Statement Ratios • Composite Ratios	11	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Kavita Vilas Purandare DEPARTMENT: Commerce CLASS: SYBCOM SEMESTER: III
(Subject : Business Law) MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To learn Indian Contract Act, Special contract, Sale of goods act and negotiable instrument act.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian Contract Act 1872 (Part 1 and 2)	• Indian contract Act, 1872 • Definitions, agreement, kinds of agreement, contract, kinds of contract, valid, void, voidable, contingent and Quasi contract • Offer or proposal – definition, essentials of valid proposal or offer, distinguish between offer and invitation to offer. • Capacity to contract, consent and free consent. • Consideration – concept, importance of consideration, legal rules of consideration.	24		Chalk and Board
Special Contracts	• Law of Indemnity and guarantee (ss.124-125, ss-126-129, 132-147 • Law of Bailment and pledge	12		Chalk and Board

K Purandare

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TEACHING PLAN (UNIT PLAN)

	• Law of Agency			
Sale of goods act - 1930	• Introduction, Definition, Formalities of contract of sale • Distinguished between sale and agreement to sell, sale and hire purchase agreement • Transfer of property as between the seller and the buyer, rights of an unpaid seller. • Property – concept, rule of transfer of property. • Unpaid seller, rights of an unpaid seller, remedies of breach contract.	12		Chalk and Board
Negotiable instruments act – Amended act 2015	• Meaning, definition, characteristics of negotiable instrument, evidence, presumptions, classifications • Promissory note and bill of exchange, • Definition of acceptor, acceptance, drawer, Drawee • Miscellaneous provisions – parties to negotiable instruments holder, rights and privileges of holder in due course.	12		Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS:SYBCOM– E,FSEMESTER: III

MONTH: June to October 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To let students understand what is Income Tax and how it is reflected in our practical life.
The learners will be able to: Understand the concept of Income Tax and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Management Accounting Unit 1	Introduction to Management Accounting	4	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 2	Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom
Management Accounting Unit 3	Ratio Analysis - Balance Sheet Ratios - Revenue Statement Ratios - Composite Ratios	11	Manan Prakashan, Self maintained notes,ICAI study material	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30 per Division

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TEACHING PLAN (UNIT PLAN)

DEPARTMENT: COMMERCE- ACCOUNTANCY CLASS: TYBCOM SEMESTER: V (Subject: FINANCIAL ACCOUNTING) MONTH: JUNE TO OCT
ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.

THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Internal Reconstruction	Meaning and Need of Internal Reconstruction, Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Accounting procedures, journal entries on internal reconstruction. Practical Illustrations	15	.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT
2. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash	15	S.N. MAHESHWARY, KHAN & JAIN,	Chalk & Duster Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

	flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.		Timothy R. Mayes	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: Accountancy CLASS: S Y B Com [A&B]

SEMESTER: IV MONTH: December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Learn about the working format of the company regards to raising of capital funds by way of issuing shares, debentures. Also, the legal procedure to raise these funds. It also helps to give practical knowledge of accounts. Additionally, the learner will be able to understand the method for the redemption of preference share and calculation of settling the proceeds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Accountancy and Financial Management IV	UNIT I **Introduction to Company Accounts** Introduction of basic terms: Types of companies, nature and formation of companies, Shares, Debentures, Share Capital, Reserves and surplus, types of assets and liabilities, dividend, format of Balance Sheet (Only theory) Issue of shares: Different modes IPO, Private Placements, Preferential, Rights, ESO, SWEAT and ESCROW account, Issue of shares at par, premium and discount, Under subscription and Over subscription of shares, forfeiture and reissue of forfeited shares, issue of shares for consideration other than cash. (Only theory) Issue of Debentures: types of Debentures, Issue of debentures at par, premium and discount, Issue of Debentures with consideration of Redemption, Issue of debentures for cash receivable in instalments or at a time Issue of debentures for consideration other than cash. (Only theory)	15	Introduction to Accountancy T.S. Grewal S. Chand and Co. (P) Ltd., New Delhi Advanced Accounts Shukla and Grewal S. Chand and Co. (P) Ltd., New Delhi	GOOGLE CLASSROOM Group Discussion, Chalk & talk, Black-Board Method; Group Discussion

	UNIT II **Redemption of Preference Shares** Provision of the Companies Act for redemption of Preference Shares (Sec 55 of the Companies Act, 2013), Companies (Share and Debentures) Rules. Methods of Redemption of fully paid-up Preference Shares as per Companies Act, 2013: The proceed of a fresh issue of shares, the capitalization of undistributed profits and a combination of both, calculation of minimum fresh issue to provide the fund for redemption, (Question on entries and/or Balance Sheet) Note: Companies governed by Section 133 of the Companies Act, 2013 and comply with the accounting standards prescribed for them. Hence, the balance in security premium account not to be utilized for premium payable on redemption of preference shares.	15		
	UNIT III Redemption of Debentures Provisions of companies Act , creation and investment of Debenture redemption reserve. Methods of redemption by payment in lumpsum and payment in instalments, conversion. Practical problems.	15		
	UNIT IV Ascertainment and Treatment of Profit Prior to Incorporation. Introduction Principles of ascertainment	15		

	Preparation of separate combined, columnar profit &loss A/c including different basis of allocation of expenses and Income.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AARADHANA R SINGH DEPARTMENT: COMMERCE CLASS: SYBCOM (M and N) SEMESTER: IV (Subject : ADVERTISING)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to:

- Understand the concept of advertising in detail.
- Get knowledge of various advertising strategies carried out by the marketers.
- Interpret global trend in advertising and the future opportunities.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1- Media in Advertising	**Traditional Media:** Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media **New Age Media:** Digital Media Forms, Significance and Limitations **Media Research:** Concept, Important, Tool for regulation- ABC and Doordarshan Code.	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

UNIT – 2 Planning Advertising Campaign	**Advertising Campaign** – Concept , Planning , Steps , Objectives , DAGMAR model **Advertising Budget** – Facctors determining advt budget, Methods, Media Objectives **Media Planning** - Concept , Process , Media Scheduling Strategies	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test
Unit-3 Fundamental of creativity in advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposition (USP) **Creativity through Endorsements:** Endorsers Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products.	12	Marketing management by - Phillip Kotler And Marketing management Ramaswamy & Kumari Nama	Chalk-board, discussion, example and test
Unit -4 Execution and Evaluation of Advertising	**Preparing print ads -** essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard	10	Marketing management by - Phillip Kotler And Marketing management	Chalk-board, discussion, example and test

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TEACHING PLAN (UNIT PLAN)

	Evaluation - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard **Evaluation** - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.		Ramaswamy & Kumari Nama	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 46

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TEACHING PLAN (UNIT PLAN)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS: SYBCom SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: November December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Significant, contemporary rights of citizens	**A Rights of Consumers-** violation of consumer rights and important provisions of the consumer protection act 2016; other important laws to protect consumers; consumer courts and consumer movements	04	Foundation course IV by Michael Vaz and Aurora Vaz	Chalk & Board, Discussion.
	B Right to information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act 2005; some success stories	04		

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TEACHING PLAN (UNIT PLAN)

	C Protection of Citizens'/ Public Interest- Public Interest Litigation, need and procedure to file a PIL; some Landmark cases	02		
	D citizens charter, Public Service Guarantee Act	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS:SYB.Com SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: January ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II Approaches to understanding ecology	**A understanding approaches to ecology**- anthropocentrism, biocentrism and ecocentrism, Eco feminism and deep ecology	04	Foundation course IV by Michael Vaz and Aurora Vaz	Chalk & Board, Discussion.
	B environmental principles 1- the sustainability principle, the polluter pays principle, the precautionary principle	04		
	C environmental principles 2- the equity principle, Human Rights principle, the participation principle	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

CLASS:SYB.Com SEMESTER: IV Div:-C,D,E,F,G,H,I MONTH: February ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III	**Part A- some significant modern technologies, features and applications**		Foundation course IV by	Chalk & Board, Discussion.

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TEACHING PLAN (UNIT PLAN)

Science and Technology II	1. **Laser technology-** light amplification by stimulated emission of radiation, use of laser in Remote Sensing, GIS or GPS mapping, medical use	02	Michael Vaz and Aurora Vaz	
	2. **Satellite Technology-** various uses in satellite navigation systems, GPS and imprecise climate and weather analysis	02		
	3. **Information and Communication Technology-** convergence of various Technology like satellite, computer and digital in the information revolution of today's society	02		
	4. **Biotechnology and genetic engineering-** applied biology and uses in medicine, Pharmaceuticals and Agriculture, genetically modified plant, animal and human life	02		
	5. **Nanotechnology-** definition, the study, control and application of phenomena and materials at length scales below 100 nm, uses in medicine, military intelligence and consumer products	01		
	Part B- issues of control, access and misuse of Technology	02		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

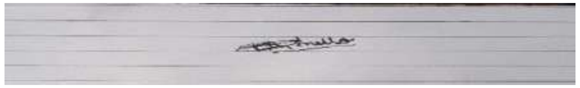
TEACHING PLAN (UNIT PLAN)

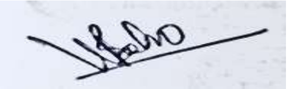
NAME OF THE STAFF: Abigail D'mello SUBJECT: Foundation Course IV DEPARTMENT: Commerce

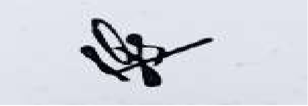
CLASS:SYB.Com SEMESTER: IV Div:- C,D,E,F,G,H,I MONTH: March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Impart an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT IV	**Part A- Basic information on competitive examinations, the pattern, eligibility criteria and local centres**		Foundation course IV by	Chalk & Board, Discussion.







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TEACHING PLAN (UNIT PLAN)

Introduction to competitive exams	1. Examinations conducted for entry into professional courses- graduate record examination, graduate management admission test GMAT, common admission test and scholastic aptitude test	01	Michael Vaz and Aurora Vaz	
	2. Examinations conducted for entry into jobs by Union Public Service Commission, Staff Selection Commission, Staff Public Service Commission, Banking and Insurance sectors and the National and State Eligibility Test NET/SET for entry into teaching profession	02		
	Part B- Soft Skills required for Competitive Examinations			
	1. **Information on areas tested-** quantitative ability, data interpretation, verbal ability and logical reasoning, creativity and Lateral thinking	02		
	2. **Motivation-** concept, theories and types of motivation	02		
	3. **Goal setting-** types of goals, SMART goals, Stephen Covey's concept of human endowment	01		

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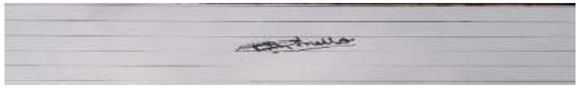
TEACHING PLAN (UNIT PLAN)

	4. **Time management-** effective strategies for time management	01		
	5. **Writing skills-** paragraph writing, report writing, filing an application under the RTI Act, consumer grievance letter	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11



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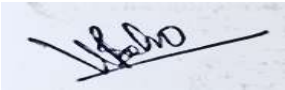

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: SYBCOM SEMESTER: 4 (Subject : Financial Accounting)
MONTH: November-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit -1 Introduction to Company Accounts	Types of Companies, nature and formation of companies,shares,,debentures,sharecapital,format of balance sheet. Issue of shares Issue of Debentures	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit -2 Redemption of Preference Shares	Provisions of companies Act for redemption of preference shares. Methods of redemption, proceeds of fresh issue, calculation of minimum issue. Practical problems	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit – 3 Redemption of Debentures	Provisions of companies Act , creation and investment of Debenture redemption reserve. Methods of redemption by payment in lumpsum and payment in instalments, conversion. Practical problems	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method
Unit- 4	Introduction Principles of ascertainment	15	Financial Accounting by R. Narayanaswamy	Discussion and Blackboard method

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Ascertainment and Treatment of Profit Prior to Incorporation	Preparation of separate combined, columnar profit &loss A/c including different basis of allocation of expenses and Income.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Ramchandra Patil DEPARTMENT: Commerce CLASS: SYB.COM – K, L SEMESTER:

IV MONTH: December-January ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Production Management, Inventory Management

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Systems: Concept, Types -Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity. Inventory Management- Objectives, Inventory Control Techniques. Scientific Inventory Control System -Importance Production Management: Objectives, Scope Production Planning &Control :Steps, Importance	12	Essentials of Inventory Management-MaxMuller	Chalk & board
MODULE II QUALITYMANAGEMENT	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types –Internal Failure Cost, External FailureCost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	10	Production & Operation	Chalk & board

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NT	Quality Management Tools: TQM –Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen– Process Service Quality Management:Importance, SERVQUALModel,Measures to improve service quality.		Management(Text & Cases)K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication.	
MODULE III INDIAN FINANCIAL SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation:Process, Role of Depositories : NSDL and CDSL SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators. Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.	12	Indian Financial System— BharathiPathiak, Pearson publication	Chalk & board
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments. Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	12	Mutual Funds in India: Emerging Issues- NaliniPravaTripathy, Excel Books New Delhi.	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 46

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR DEPARTMENT: COMMERCE CLASS: SYBCOM DIV - N SEMESTER: IV

SUBJECT : BUSINESS LAW MONTH: NOVEMBER - MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to Know Various kinds of companies and features and procedure for incorporating a company.
The learners will be able to Know Partnership Meaning, Procedure for Registration of Partnership, Types of Partner, Rights and Duties of Partner.

The learners will be able to Know Rights of Consumers, forms of its Violation and Consumer Protection Act.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module. No. 1 Indian companies Act, 2013 Part -1	Chapter I – Company, Features, Role of promoters, Duties and Liabilities of the promoter, effects of pre incorporation contracts, consequences of non- registration, and lifting of corporate veil. Chapter II – Classification of companies, Distinction between Private company and public company, Advantages and disadvantages of Private company and public company, Common Procedure for Incorporation of company.	08	Company Law Avtar singh Indian Partnership Act, 1932- Pollock & Mulla Agrawal V.K. Consumer	1) Lecture and Discussion 2) Case Study 3) Black Board, Chalk and Duster

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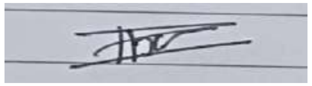
	Chapter III – Memorandum of Association and Article of Association – Concept, Clauses of MOA, AOA – Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor management. Chapter IV - Prospectus : concept, Kinds, Contents, Private Placement		protection Law and practice Vipul Prakashan	
Module. No. 2 Indian companies Act, 2013 Part – 2	Chapter - I Member of a Company: Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right and liabilities of members. Chapter – II Director: Qualification and disqualification, Classification, Director Identification number, Legal position of director. Chapter – III Meetings : Types, Legal provisions of statutory meeting, Annual General meeting, Extra-Ordinary meeting.	08 08		
Module. No. 3				



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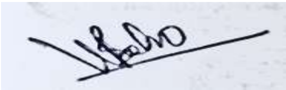

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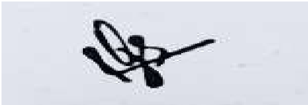

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Indian Partnership Act, 1932	Chapter I - Partnership: Concept, Essentials, True test of Partnership, Partnership Deed, Types of Partnership, Rights and duties of Partners, Distinguish between Partnership and Hindu Undivided Family. Chapter II - Dissolution: Concept, Modes of Dissolution, Consequences of Dissolution Chapter III - Limited Liability Partnership 2008: Concept, Characteristics, Advantages and Disadvantages, Procedure for Incorporation. Chapter IV - Extent of L.L.P.: Conversation of LLP, Mutual Rights and Duties of Partners, winding up of LLP, Distinction between LLP and Partnership.	08		
Module No. 4 Consumer Protection Act, 1986 and Competition Act 2002.	Chapter - I Concept, Objects, Reasons for enacting the Consumer Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Defect, Deficiency, Unfair Trade Practices, Goods and Services. Chapter - II - Consumer Protection Councils and Redressal Agencies: District, State and National.			

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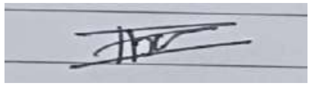
	Chapter - III - Competition Act 2002: Concept, Salient Features, Objectives and Advantages. Chapter IV Abuse of Dominant Position, Competition Commission of India, Anti-Competition Agreements.			
Module No. 5 Intellectual Property Rights	Chapter I – Intellectual Property right: Concept, Nature, Introduction and background of IPR in India. Chapter II – IPR relating to patents, Concepts of Invention and discovery, comparison, Concepts of patents, General principals applicable to working of patented inventions, Terms of patents, Infringement of patent right and remedies. Chapter III - IPR Relating to Copyrights: Concept of Copyright, Ownership of Copy right, Duration or term of copy right, Original work and fairs use, Rights of copyright holder, Infringement of copyrights and Remedies. Chapter IV - IPR Relating to Trademarks: Concept, Functions, Types, trademarks that cannot be registered, Registration of	08		



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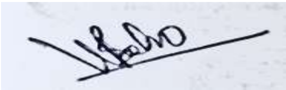

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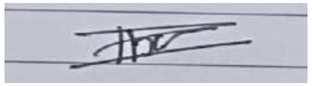
	trademarks and Rights of the Proprietor of Trade Marks. Procedure for registration of Trade Marks., infringement of Trademarks and Remedies.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40



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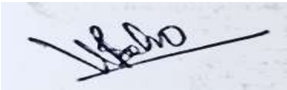

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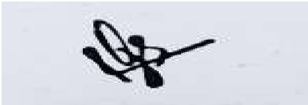

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Tejaswini Yogesh Naik______________________ DEPARTMENT: __Accountancy_______ CLASS: ___SYBCOM____
SEMESTER: IV (Subject : AUDITING)

MONTH: JANUARY TO APRIL ACADEMIC YEAR 2022-23 __________

LEARNING OBJECTIVE/S: Basic of Auditing , difference between auditing and accounting, types of errors and frauds, principles of audit, types of audit , audit planning, audit programme, audit working papers, test check, audit sampling, internal control, internal audit, vouching and verification

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	Intriduction to auditing	10 10	Manan publication	Blackboard

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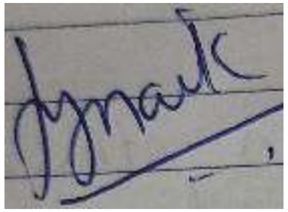

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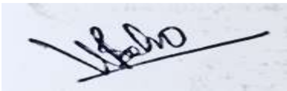

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TEACHING PLAN (UNIT PLAN)

		10 15		
	1. Audit planning procedures and documentation 2. Audit techniques and internal audit introduction Audit techniques: Vouching and verification			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45

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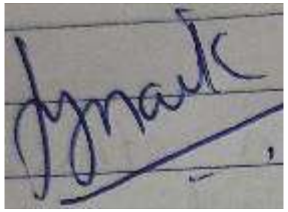

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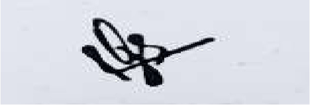

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TEACHING PLAN (UNIT PLAN)

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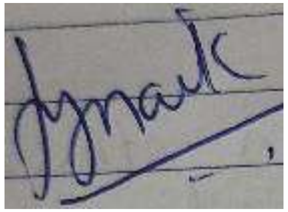

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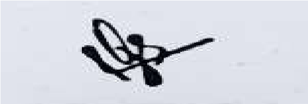

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: SYBCOM SEMESTER: IV (Subject :Auditing)

MONTH: Dec 2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the objective, Limitation of audit & Difference between Accounting and Auditing, Investigation and Auditing.

To Understand Errors & Frauds, Types of Error, Types of frauds & Auditors Duties and Responsibilities in case of fraud.

To analyse the Principles of Audit & Types of Audit

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
1. Introduction to Auditing	A. Basics Financial Statements, Users of Information, Definition of Auditing,Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds - Definitions, Reasons and Circumstances, Types of Error,Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit - Meaning, Advantages,Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

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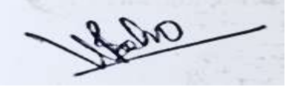

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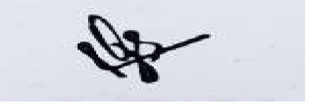

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TEACHING PLAN (UNIT PLAN)

	Annual Audit, Statutory Audit			
Vouching and Verification	Vouching and verification of transactions and assets liabilities	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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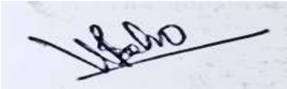

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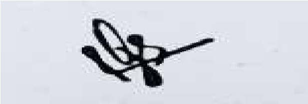

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: FYBCOM SEMESTER: IV (Subject: Business Economics IV

MONTH: November – March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Students will be able to understand basic concepts of Public Finance

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics III	Module 1:The role of state in the economy. Meaning and Scope of Public Finance, Major Fiscal Functions Principle of Maximum Social Advantage Market Failure and Role of Government	3 lectures per week	MACRO ECONOMIC THEORY - M.L.JHINGAN Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions
	Module 2: PUBLIC REVENUE: Sources, Canons, Types, Impact and Incidence of Taxation, Economic Effects, Nature of Taxation	3 lectures per week	Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	Module 3: PUBLIC EXPENDITURE AND PUBLIC DEBTS: Classification, Economic effects, significance, Theories of public expenditure Public debt, Types of Public Debt, Effects of Public Debt, FRBM act		Advanced Macro Economics - H.L. AHUJA.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: FISCAL MANAGEMENT AND FINANCIAL ADMINISTRATION: Fiscal Policy, Contra Cyclical and Fiscal Policy and Discretionary Fiscal Policy- Principle of Sound Finance and Functional Finance, Budget-Meaning, objectives and Types, Intergovernmental Fiscal Relations-Fiscal Federalism and Fiscal Decentralization.			Chalk and Board Google Classroom Classroom Discussions

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. BRISTI BISWAS **DEPARTMENT**: Business Economics **CLASS**: SYBCOM **SEMESTER**: IV (**Subject**: BUSINESS ECONOMICS)

MONTH: NOVEMBER-MARCH **ACADEMIC YEAR**: 2022-2023

LEARNING OBJECTIVE/S: To learn a better role of an entrepreneur and skilled manager Build familiarity with the operation of markets and optimization in an economic context

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS IV Module I to Module IV	Module 1:THE ROLE OF GOVERNMENT IN AN ECONOMY: Meaning and Scope of Public Finance, Major Fiscal Functions, Principle of MSA-Dalton & Musgrave, Principles in Practice and its Limitations	15	Advanced Macro Economics - H.L. AHUJA.	Chalk and Duster
	Module 2: PUBLIC REVENUE: Sources, Canons, Types, Impact and Incidence of Taxation, Economic Effects, Nature of Taxation	15	Macro Economics - H.L.Ahuja	Chalk and Duster
	Module 3: PUBLIC EXPENDITURE AND PUBLIC DEBTS: Classification, Economic effects, significance, Contribution, Public debt burden of debt finance.	15	Advanced Economic Theory (M.L. Jhingan)	Chalk and Duster

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TEACHING PLAN (UNIT PLAN)

	Module 4:FISCAL MANAGEMENT AND FINANCIAL ADMINISTRATION: Fiscal Policy, Contra Cyclical and Fiscal Policy and Discretionary Fiscal Policy-Principle of Sound Finance and Functional Finance, Budget-Meaning, objectives and Types, Intergovernmental Fiscal Relations-Fiscal Federalism and Fiscal Decentralization.	15	Advanced Economic Theory (M.L. Jhingan)	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pallavi Naik DEPARTMENT: B.Economics CLASS: SYBCOM SEMESTER: IV (Subject : B.ECONOMICS)

MONTH: December to march ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The fundamental concepts and issues of public finance

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
MODULE 1: The role of government in an economy Module 2 : Public revenue Module 3: Public expenditure and Public dept Module 4; Fiscal Management	The role of government in an economy – Public finance , Efficiency – Market – Government , The principle of maximum social advantage		Manan prakashan	Chalk duster and blackboard
	Public revenue, Shifting of tax burden , Economic effects of Taxation	15	Seth publication	
	Public expenditure : Canons , Classification and Effects, Growth of Public expenditure, Public expenditure and social welfare , Public Debt.			
	Fiscal policy , Types of fiscal policy , Types of Budget and concepts of Deficit , Intergovernmental Fiscal Relations.	15		
		15		

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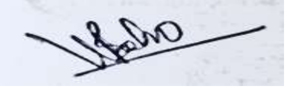

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TEACHING PLAN (UNIT PLAN)

and financial administration				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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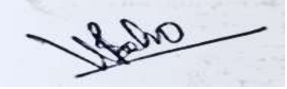

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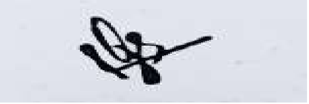

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **F.Y.BCOM** SEMESTER: **IV** (Subject : **BUS. ECONOMICS-IV**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **THE ROLE OF GOVERNMENT IN AN ECONOMY**

The student must be able to understand **PUBLIC REVENUE**

The student must be able to understand **PUBLIC EXPENDITURE AND PUBLIC DEBT**

The student must be able to understand Fiscal policy and Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - IV	Unit I		*Mehta, P.L.: Managerial Economics*	Google classroom, Google Forms CHALK DUSTER

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TEACHING PLAN (UNIT PLAN)

	Meaning and Scope of Public finance. • ***Major fiscal functions*** : allocation function, distribution function & stabilization function • ***Principle of Maximum Social Advantage:*** Dalton and Musgrave Views - the Principle in Practice, Limitations. • ***Relation between Efficiency, Markets and Governments*** • ***The concept of Public Goods and the role of Government***	**10 lectures**	– *Analysis, Problem and Cases*	METHOD
	Unit-II ***Sources of Public Revenue :*** tax and non-tax revenues • Objectives of taxation - Canons of taxation - Types of taxes : direct and	15 lectures	H. L. AHUJA MORDEN ECONOMICS	

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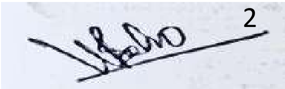

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	indirect - Tax Base and Rates of taxation : proportional, progressive and regressive taxation • ***Shifting of tax burden:*** Impact and incidence of taxation - Processes- factors influencing incidence of taxation • ***Economic Effects of taxation:*** on Income and Wealth, Consumption, Savings, Investments and Production. • ***Redistributive and Anti – Inflationary nature of taxation*** and their implications			
	Unit III: ***Public Expenditure:*** Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization - Theories of Public Expenditure: Wagner's Hypothesis	**10 lectures**		

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	and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth - Significance of Public Expenditure: Low Income Support and Social Insurance Programmes. • **Public Debt** : Classification - Burden of Debt Finance : Internal and External- Public Debt and Fiscal Solvency			
	Unit IV: **fiscal Policy:** Meaning, Objectives, constituents and Limitations. • **Contra cyclical Fiscal Policy and Discretionary Fiscal Policy** : Principles of Sound and Functional Finance	**10 lectures**	Sumitra, Managerial Economics cases and concepts	

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	• ***Budget-*** Meaning objectives and types - Structure of Union budget - Deficit concepts • ***Intergovernmental Fiscal Relations :*** fiscal federalism and fiscal decentralization – centralstate financial relations			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Commerce CLASS: S.Y.B.Com SEMESTER: IV (Subject : Foundation Course IV)

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

_To develop and gain logical reasoning, critical thinking abilities, creating and testing hypotheses and thus opening doors to research.

_To measure verbal reasoning, quantitative reasoning, and analytical writing.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FC Unit II Approaches to understanding ecology	A Understanding approaches to ecology-Anthropocentrism, B Biocentrism and Ecocentrism, Ecofeminism and Deep ecology.	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course	Lecture method, interative method

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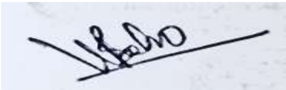

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TEACHING PLAN (UNIT PLAN)

	C Environmental Principles-i) The sustainability principle, ThePolluter Pays Principle , The Precautionary Principle. Environmental Principles-ii) The Equity Principle;		Newspapers	
Unit IV Introduction to competitive exams	Part A: Basic information on competitive examinations- The pattern, eligibility criteria and local centres. i) Examinations conducted for entry into professional courses- GRE, GMAT, CAT,SAT. ii) Examination conducted for entry into jobs by UPSC,SSC, Banking and Insurance sector, NET-SET. Part B: Soft skills for competitive examinations	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course Newspapers	Lecture method, interative method

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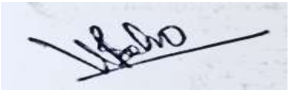

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	i) Information on area s tested: Quantitative ability, Data interpretation , Verbal ability and logical reasoning, creativity and lateral thinking. ii) Motivation: Concept, theories and types of motivations. iii) Goal setting: Types of goals, SMART Goals, Stephen Conveys concept of human endowment. iv) Time management: Effective strategies . Writing Skills: Paragraph writing, Report writing, Filing an application under the RTI Act, Grievance letter.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Praktana Kore DEPARTMENT: _________ CLASS: _SYB.COM –G,H ______ SEMESTER: __IV IV (Subject : _________________)

MONTH: _______December-February _____ ACADEMIC YEAR: _____ 2022-2023 _____

LEARNING OBJECTIVE/S: _To acquaint the learners with the basic concepts of Production Management, Inventory Management

____

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Management: Objectives, Scope Production Planning & Control : Steps, Importance	03	Production & Operations Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management- MaxMuller	1.Lecture and discussion. 2. Flow charts.
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.	04		
	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04		

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TEACHING PLAN (UNIT PLAN)

	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.			
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process			
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: S.Y.B.Com (E,F) SEMESTER: IV

MONTH: June to July ACADEMIC YEAR: 2022-2023 Subject: Commerce

LEARNING OBJECTIVES:
To acquaint the learners with the basic concepts of Production Management, Inventory Management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED	
MODULE 1 PRODUCTION & INVENTORY	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance	03	Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management- MaxMuller	1.Lecture and discussion. 2. Flow charts.	1.Lectu 2. Flov
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.				

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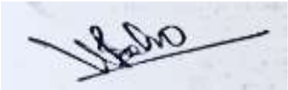

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TEACHING PLAN (UNIT PLAN)

MANAGEMENT	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04			
	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	04			
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process				
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.				

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

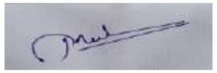
NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Production Management, Inventory Management

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
MODULE 1 PRODUCTION & INVENTORY MANAGEMENT	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance	03	Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication Essentials of Inventory Management-MaxMuller	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity.	04		
	Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11*2=22



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To acquaint the learners with the basic concepts of Quality Management.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 2 QUALITY MANAGEMENT	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	04	Production and Operations Management – ProfL.C.Jhamb, Event Publishing House. .Production Planning & Control- ProfL.C.Jhamb, Event Publishing House	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process	03		

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	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.	03	Production & Operation Management (Text & Cases)- K.Ashwathappa&G.Sudeshana Reddy, Himalaya Publication.	

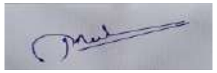
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10*2=20

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To provide basic knowledge about Indian Financial Systems.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED



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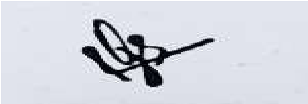

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TEACHING PLAN (UNIT PLAN)

MODULE 3 INDIAN FINANCIAL SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation: Process, Role of Depositories : NSDL and CDSL	04	. Indian Financial System—BharathiPathiak, Pearson Publication Financial Institutions and Markets : StructureGrowth & Innovations – L.M.Bhole , Jitendra Mahakad, The IndianFinancial System and Financial Market Operator-VasantDesai, Himalaya Publishing Indian Financial System – M.Y.Khan, Tata McGraw – Hill	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators.	04		
	Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: SYB.COM – I, J

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SEMESTER: IV MONTH: December-February ACADEMIC YEAR: 2022-2023 SUBJECT: COMMERCE-IV

LEARNING OBJECTIVE/S: To update the learners with the recent trends in Finance.

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan.	04	Mutual Funds in India: Emerging Issues- NaliniPravaTripathy, Excel Books New Delhi. A Trades Guide to Indian Commodities Market-Vijay L. Bhambwani, Network 18 Publication Ltd.	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments.	04		
	Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12*2=24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: SYBCOM (DIV G&H) SEMESTER: III (Subject : Advertising)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Media in Advertising	**Traditional Media:** Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media. **New Age Media:** Digital Media Forms, Significance and Limitations **Media Research:** Concept, Important, Tool for regulation- ABC and Doordarshan Code.	11	Marketing Management by Philip Kotler	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT-2 Planning Advt Campaign	**Advertising Campaign** – Concept , Planning , Steps , Objectives , DAGMAR model **Advertising Budget** – Facctors determining advt budget, Methods, Media Objectives **Media Planning** - Concept , Process , Media Scheduling Strategies	11		Chalk and talk method
UNIT 3 – Fundamentals of Creativity in Advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. • **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposi	11		Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT 4 - Execution and Evaluation of Advertising	**Preparing print ads** - essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. **Creating broadcast ads** : Execution styles, jingles and music importance, Concept of Storyboard **Evaluation** - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.	12	Marketing Management by Philip Kotler	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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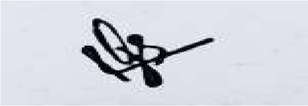

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: SYBCOM (DIV C & D) SEMESTER: III (Subject : Commerce IV)

MONTH: NOVEMBER TO FEBRUARY   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To gain the knowledge of production, planning and inventory management .

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 – Production and Inventory Management	**Production Management** - Objectives , Scope. PPC :steps and importance **Production System** - Concept , Types **Productivity** - Concept , Factors and Measures. **Inventory Management :** Objectives , Inventory Control Techniques. Scientific Inventory Control System- Importance.	11	Production and Operation Management – S N Chary	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT-2 Quality Management	**Introduction to Quality** – dimensions **Cost of Quality** – Types **Quality Management Tools** – TQM , SIX SIGMA , ISO 9000, KAIZEN PROCESS. Service Quality Management – Importance , SERVQUAL model , Measures to improve service quality	10	Total Quality Management – Stephen George and Arnold Weimerskirch	Chalk and talk method
UNIT 3 – Indian Financial System	**Indian Financial Market – Structure ,** IPO process ,Role of Depositories : NSDL and CDSL **SEBI** : Functions, Measures of SEBI , Stock Exchange – Functions and speculators **Credit Ratings –** Advantages , CRISIL , CARE , ICRA	12	Indian Financial System – Bharati Pathak	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

UNIT 4 - Recent Trends in Finance	**Mutual Funds** – Advantages , Limitation, Types , Factors responsible. **Commodity Market** - Types **Derivative Market** – Types , participants , types of derivative instruments. **Start Up Ventures** – Concept , Sources **Micro Finance** – Importance , Role of SHG	12	Indian Financial System – Bharati Pathak. Banking and Micro Finance in India – Minimol M C	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

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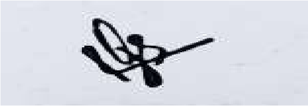

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI   DEPARTMENT: COMMERCE   CLASS: SYBCOM (ALL DIVISIONS) SEMESTER: III (Subject : NSS FC IV)

MONTH: NOVEMBER TO FEBRUARY   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Gain knowledge about National Service Scheme, its benefits to the society, scope for the NSS volunteers

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT-1 Entrepreneursh ip Development and Schemes	• Entrepreneurship development – meaning • Attributes of entrepreneur • Women entrepreneurship • Government and self-employment schemes • Skill India, Start up India, Digital India, Make in India, • NITI Aayog	12	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

			Service Scheme Manual,2009.	
UNIT-2 Cottage Industries in India	• Cottage industries – meaning • Pre independence & Post independence scenario • Marketing of Cottage Products and outlets • Government policies to encourage cottage industries • Hurdles in the development of cottage industries	10	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method
UNIT 3 - Rural Resource Mobilization	• **Resources Mobilization – Meaning** • Case Study of Eco – Village, Eco – Tourism, Agro – Tourism • **UNIT - II Concept of " Ideal Village "** • Gandhian Concept of " Ideal Village " • Case Studies on Ideal Village – Ralegansiddhi, Hiware Bazar, MendhaLekha		1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs	Chalk and talk method

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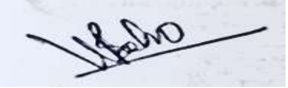

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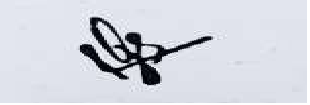

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(Commerce)

TEACHING PLAN (UNIT PLAN)

and Ideal Village		12	and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	
UNIT 4 - Voluntary Organisations and Non-Govt. Organisations in Maharashtra	• **UNIT - I** • Search • Anandwan • Muktangan • **UNIT – II** • Snehalay • Halo Medical Foundation (HMF) • Bharatiya Agro Industries Foundation (BAIF)	11	1. Service Scheme Manual (Received) Government of India Ministry of Youth Affairs and sports, New Delhi.And 2. University of Mumbai National Service Scheme Manual,2009.	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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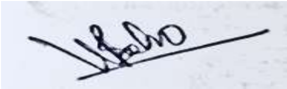

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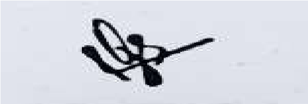

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Commerce CLASS: S.Y.B.Com SEMESTER: IV (Subject : Foundation Course IV)

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

_To develop and gain logical reasoning, critical thinking abilities, creating and testing hypotheses and thus opening doors to research.

_To measure verbal reasoning, quantitative reasoning, and analytical writing.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
FC Unit II Approaches to understanding ecology	A Understanding approaches to ecology-Anthropocentrism, B Biocentrism and Ecocentrism, Ecofeminism and Deep ecology.	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	C Environmental Principles-i) The sustainability principle, ThePolluter Pays Principle , The Precautionary Principle. Environmental Principles-ii) The Equity Principle;		Newspapers	
Unit IV Introduction to competitive exams	Part A: Basic information on competitive examinations- The pattern, eligibility criteria and local centres. i) Examinations conducted for entry into professional courses- GRE, GMAT, CAT,SAT. ii) Examination conducted for entry into jobs by UPSC,SSC, Banking and Insurance sector, NET-SET. Part B: Soft skills for competitive examinations	12	Sheth Publishers Michael Vaz Aurara vaz:foundation course Newspapers	Lecture method, interative method

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TEACHING PLAN (UNIT PLAN)

	i) Information on area s tested: Quantitative ability, Data interpretation , Verbal ability and logical reasoning, creativity and lateral thinking. ii) Motivation: Concept, theories and types of motivations. iii) Goal setting: Types of goals, SMART Goals, Stephen Conveys concept of human endowment. iv) Time management: Effective strategies . Writing Skills: Paragraph writing, Report writing, Filing an application under the RTI Act, Grievance letter.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __SYBCOM I & J__ SEMESTER: IV__ (Subject : Advertising__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT 1 Media in Advertising	Traditional Media: Print, Broadcasting, Out-Of-Home advertising and films - advantages and limitations of all the above traditional media New Age Media: Digital Media Forms, Significance and Limitations Media Research: Concept, Important, Tool for regulation- ABC and Doordarshan Code.	11	Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES		EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

		ALLOTED	REFERENCE/ S	
UNIT 2 Planning Advertising Campaign	Advertising Campaign – Concept , Planning , Steps , Objectives , DAGMAR model Advertising Budget – Facctors determining advt budget, Methods, Media Objectives Media Planning - Concept , Process , Media Scheduling Strategies	**11**	Marketing Management by Philip Kotler	**Chalk and board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 Fundamental s of Creativity in Advertising	**Creativity:** Concept and Importance, Creative Process, Concept of Creative Brief, Techniques of Visualization. **Creative aspects:** Buying Motives - Types, Selling Points Features, Appeals Preposition (USP)	11	Marketing Management by Philip Kotler	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Creativity through Endorsements: Endorsers Types, Celebrity Endorsements - Advantages and Limitations, High Involvement and Low Involvement Products			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTU RES ALLOTTE D	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 4	Preparing print ads - essentials of copywriting, Copy- elements, types, Layout – principles, Illustration- importance. Creating broadcast ads : Execution styles, jingles and music importance, Concept of Storyboard Evaluation - Advertising copy, Pre- test and Post- test of advertisements , Methods and Objectives.	11	Marketing Management by Philip Kotler	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce_IV_ CLASS: __SYBCOM A&B_ SEMESTER: IV__ (Subject : Advertising__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _To update the learners with the recent trends in Finance.

APER, UNIT, TITLE	SUBTOPI CS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
MODULE 1 PRODUCTI ON & INVENTOR Y MANAGEM ENT	Production Management: Objectives, Scope Production Planning &Control : Steps, Importance Production Systems: Concept, Types - Continuous and Intermittent. Productivity: Concept, Factors Influencing Productivity, Measures for improving Productivity. Inventory Management- Objectives, Inventory Control- Techniques. Scientific Inventory Control System - Importance	11	Production & Operation Management (Text & Cases)- K.Ashwathappa &G.Sudeshana	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE	EACHING METHOD/ ICT TOOLS USED
Packaging, Product positioning, service Positioning	Introduction to Quality: Dimensions of Quality, Cost of Quality: Types – Internal Failure Cost, External Failure Cost, Appraisal Cost, Prevention Cost, Quality Circle: Features.	**11**	Production & Operation Management (Text & Cases)	**Chalk and Board**
	Quality Management Tools: TQM – Importance, Six Sigma – Process, ISO 9000 – Certification Procedure, Kaizen – Process			
	Service Quality Management: Importance, SERVQUAL Model,Measures to improve service quality.			

Total number of lectures alloted - 11

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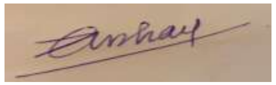
TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
MODULE 3 INDIAN FINANCIA L SYSTEM	Indian Financial Market: Structure, Primary Market – IPO Procedure Dematerialisation: Process, Role of Depositories : NSDL and CDSL	11	Production & Operation Management (Text & Cases)	Chalk and board
	SEBI: Functions of SEBI, Investors protection measures of SEBI. Stock Exchange – Functions, Speculators.			
	Credit Rating: Advantages, Credit Rating Agencies in India - CRISIL, CARE, and ICRA.			

Total number of lectures alloted -11

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S	REFERENC E/S	EACHING METHOD/ ICT TOOLS USED



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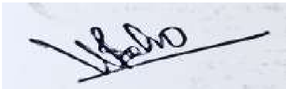

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TEACHING PLAN (UNIT PLAN)

		ALLOTED		
MODULE 4 RECENT TRENDS IN FINANCE	Mutual Funds- Advantages and Limitations, Types, Factors responsible for growth of mutual funds – Systematic Investment Plan. Commodity Market: Categories, Derivatives Market: Types, Participants, Types of Derivative Instruments. Start-up Ventures –Concept, Sources of Funding, Micro Finance – Importance, Role of Self Help Groups.	11	Production & Operation Management r	Chalk and board

Total number of lectures alloted - 11

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NAACaccredited "B" Grade, 2.69 CGPA
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Auditing, what are the objective, Limitation of audit & Difference between Accounting and Auditing, Investigation and Auditing.
2. What is Errors & Frauds, Types of Error, Types of frauds & Auditors Duties and Responsibilities in case of fraud.
3. What are the Principles of Audit & Types of Audit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Introduction to Auditing	A. Basics Financial Statements, Users of Information, Definition of Auditing,Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds - Definitions, Reasons and Circumstances, Types of Error,Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit - Meaning, Advantages,Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit	10	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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NAAC accredited "B" Grade, 2.69 CGPA
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Audit Planning, Audit Program Audit Working Papers

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	TEACHING METHOD/ ICT TOOLS USED
2.Audit Planning, Procedures and Documentation	A.Audit Planning - Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach B.Audit Program - Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. C.Audit Working Papers - Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.	10	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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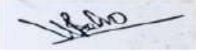

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NAAC accredited "B" Grade, 2.69 CGPA
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– I,J,K,L** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. What is Test Check, Audit Sampling, Internal Control & Internal Audit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
3.Auditing Techniques and Internal Audit Introduction	A.Test Check- Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. B.Audit Sampling - Audit Sampling, meaning, purpose, factors in determining sample size - Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample C.Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, InherentLimitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. D.Internal Audit: Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs InternalAudit	15	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **SYBCOM– G,H,I** SEMESTER: **III**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learners will be able to:

1. How to Vouch and Verify of Audit of Income, Audit of Expenditure, Audit of Assets & Audit of Liabilities

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
4.Auditing Techniques: Vouching & Verification	A. Audit of Income: Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received B. Audit of Expenditure Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense C. Audit of Assets Book Debts / Debtors, Stocks - Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Pater Know-How Plant and Machinery Land and Buildings Furniture and Fixture D. Audit of Liabilities: Outstanding Expenses, Bills Payable Secured Unsecured Loans, Contingent Liabilities	10	1.Principles and Practice of auditing (Sultan chand &son) 2.Auditing Principle & Techniques (S.K.Basu) 3.Auditing (Dr. T.R. sharma)	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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 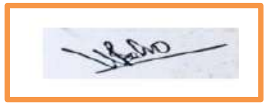

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. Kavita Vilas Purandare DEPARTMENT: Commerce CLASS: SYBCOM SEMESTER: IV
(Subject : Business Law) MONTH: November to March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To learn Indian Companies Act, 2013 Corporate Law and IPR, Indian Partnership Act 1932 and Consumer protection Act, 1986

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian companies Act, 2013	• Company and its formation, definition, nature of company. • Advantages and disadvantages of company. • Membership of companies. • Types of companies • Memorandum of Association and Articles of Association • prospectus	15		Chalk and Board
Corporate Law and IPR	• Classification of directors, women directors • Meetings, various types of meeting of shareholders and board, convening and conduct of meeting • Intellectual Property Rights – salient features,	15		Chalk and Board
Indian Partnership	• Definition, types of partnership act. • Reconstitution of partnership firm, dissolution of the firm.	15		Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Act, 1932	• Limited liability partnership			
Consumer Protection Act, 1986	• Introduction, definition of consumer, unfair trade practices • Consumer protection redressal agencies – jurisdiction. Penalties for complaints. • Competition Act 2002, objectives of the Act, Sailent features, competition commission of India.	15		Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_Dr. Mabel Lobo DEPARTMENT: Accountancy_____ CLASS: S.Y. B. Com. SEMESTER: IV___

SUBJECT: Financial Accounting and Auditing – Auditing MONTH: December 2022 to April 2023 ACADEMIC YEAR: 2022-23
LEARNING OBJECTIVE/S:
The learners will be able to: 1] Understand Need for Auditing
2] Acquire Knowledge tools and techniques of Auditing

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Auditing	A. Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. B. Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error, Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. C. Principles of Audit, Materiality, True and Fair view D. Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit	10	Principles of External Auditing Brenda Porter,	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Audit Planning, Procedures and Documentation	A. Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach B. Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. C. Audit Working Papers – Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books.	10	Auditing Theory Ian Denni	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Auditing Techniques and Internal Audit Introduction	A. Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. B. Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample C. Internal Control – Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. D. Internal Audit : Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs Internal Audit	15	Contemporary Auditing Michael C. Knapp	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

Auditing Techniques : Vouching & Verification	A. Audit of Income : Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received B. Audit of Expenditure : Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense C. Audit of Assets Book Debts / Debtors, Stocks – Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures D. Audit of Liabilities : Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities	10	Contemporary Auditing Michael C. Knapp	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: TYBCOM SEMESTER: 5 (Subject : Financial Accounting)
MONTH: June - September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Final Accounts of Companies	Provisions of companies act related to preparation of final accounts , format of balance sheet and general instructions for preparation of balance sheet (Notes to accounts). Format of statement of P&L and general instructions for preparation ofstatement of P&L under guidance of ICAI (Notes to accounts). Adjustment of final accounts and adjustment effect , accounting standard.Practical Sums	18	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom
Unit 2 Internal Reconstruction	Meaning and need of internal reconstruction , Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Practical sums	18	Financial Ac. counting by R. Narayanaswamy	Disscussion Method and Black Board, Google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 36

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : Archana Ramchandra Patil DEPARTMENT : Commerce

CLASS : TYBCOM (G,H,I) SEM : V SUB: Commerce V MONTH : July-Oct. YEAR : 2022-23

LEARNINGOBJECTIVE/S : The learners will be able to learn various aspects about marketing. Marketing is very essential part of commerce. This subject is helpful to develop marketing skills among learners

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	E TEACHING METHOD/ ICT TOOLS USED
MODULE I : INTRODUCTION TO MARKETING	Marketing Concept, features, importance, functions, evolution, Marketing research, marketing information system, data mining , Consumer behaviour, market segmentation, consumer relationship management, market targeting	10	Marketing Management by Philip Kotler	Chalk & board

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(Accountancy) **(Commerce)**

Module II **MARKETING DECISION I**	Marketing mix, product decision areas, Product life cycle, management of PLC, branding, brand equity, packaging, product positioning, service positioning, pricing, pricing strategies	10	Marketing Management by Philip Kotler	Chalk & board
Module III: Marketing decision II	Physical distribution, distribution channel, supply chain management, promotion, integrated marketing communications, sales management, personal selling	10	Marketing Management by Philip Kotler	Chalk & board

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MODULE IV : KEY MARKETING DIMENSIONS Marketing	ethics, unethical practices in marketing, general role of consumer organisations, competitive strategies for market leader, market challenger, market follower, niche marketing, Rural marketing, digital marketing, green marketing, Challenges faced by marketing managers in 21st century, careers in marketing, success & failure of brands in India	12	Marketing Management by Philip Kotler	Chalk & board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 42

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mr. ARJUN VISHWAKARMA DEPARTMENT: _Commerce_ CLASS: _T.Y.Bcom SEMESTER: V (Subject : Computer System And Application)

MONTH: NOVEMBER - MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S:
Learners will be able to understand the concept of Internet , computer Network , searching methods and cybercrime. Learners will be able to analyze the information using Spread Sheet and MySQL using SQL Language.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –I Data communication, networking and Internet	Data communication and components, data representation, distributed processing	01	Computer System And Application Manan Prakashan	POWER POINT PRESENTATION AND Google Meet , Board , Chalk and Duster
	Network basics and infrastructure - Definition, types (LAN,MAN,WAN) - Network structure - Topologies – Star, Bus Ring	01		

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TEACHING PLAN (UNIT PLAN)

	- Network media, wired- Twisted Pair , Co-axial, Fiber Optic and wireless radio and infrared. - Network hardware - HUBS, Bridges, Switches, Routers Network Protocols	01		
	Internet – Definition, Types of Connection, Hot-Spot, Services on Net – www, email, blog IP address, domain name, URL, Hyperlink, web browser, searching directories, Search engine, Boolean search (AND OR NOT), Advance search, meta search E-mail, parts of email address , cybercrime, hacking, sniffing, spoofing	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –II DATABASE AND MYSQL Unit – III DATABASE AND MYSQL	INTRODUCTION TO MYSQL	03	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	MYSQL BASIC	03		
	MYSQL built-in Functions , Multi table queries	06		
	Transaction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4- MS-EXCEL	Excel- Calculations using Avg., Sum functions	02	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Excel- Calculation of pivot Table.	02		
	Excel- Calculation of Selling Price. Simple interest and Compound Interest Excel- Excel Functions.	04		
	Excel- Calculation of Subtotal.	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

Practicals : - Computer System And Application
Sem - V

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: V (Subject :Direct Taxation)

MONTH: June 2022 to Nov 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the heads of Income

To Understand concept of taxation

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Income from HP	Concept, Format, Interest, SOP, LOP, DLOP	10	Taxaman	Lecture Method , Black board, Google Classroom
Income from Other Source	Concept, Exemptions, Practical Problem	10	Taxaman	Lecture Method , Black board, Google Classroom
Total Income	Deductions, Practical Problems	10	Taxaman	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: SYBCOM SEMESTER: V (Subject: Business Economics V

MONTH: June -October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The student must be able to understand Macro Economic overview of India

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics V	Unit I Overview of New Economic Policy-1991, - Role of Social Infrastructure with reference to education, health and family welfare. Sustainable Development Goals and Policy measures: Make in India, Invest in India, and Skill Development and Training Programmes. Foreign Investment Policy Measures in India – Foreign Investment Promotion Board, FDI- MNCs and their role.	3 lectures per week	Mehta P.L : Managerial Economics	Chalk and Board Google Classroom Classroom Discussions
	Unit-II National Agricultural Policy 2000: Objectives, Features and Implications, Agricultural pricing and agricultural finance Agricultural Marketing Development-Agricultural Market infrastructure - Market information- Marketing training- Enabling Environments-Recent Developments	3 lectures per week	Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	Pricing Practices: Price discrimination, marginal cost pricing, Mark-up pricing, multi-product pricing, Transfer pricing		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 3: Competition Act of 2002 Industrial Sector in India Service Sector		Advanced Micro Economic Theory (H.L.	Chalk and Board Google Classroom Classroom Discussions
	Module 4: Banking Sector- Recent trends, issues and challenges in Banking and Insurance Industry Money Market – Structure, Limitations and Reforms.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Babli Arvind Jha DEPARTMENT: ACCOUNTANCY

CLASS: Tybcom [O&N DIV] MONTH: AUGUST ACADEMIC YEAR: 2022-23

SEMESTER: V

SUBJECT:FINANCIAL ACCOUNTING)

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.

THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.	15	S.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BABLI JHA DEPARTMENT: Accountancy CLASS: TYBCOM[M&L DIV] SEMESTER: V (Subject :Direct Taxation)

MONTH: JULY 2022 to Nov 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the heads of Income

To Understand concept of taxation

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Income from HP	Concept, Format, Interest, SOP, LOP, DLOP	10	Taxaman	Lecture Method , Black board, Google Classroom
Income from Salary	Salary Income: Section 15 – 17 Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension ,Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund Concept, Exemptions, Practical Problem	10	Taxaman	Lecture Method , Black board, Google Classroom
Total Income	Deductions, Practical Problems	10	Taxaman	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Tejaswini Yogesh Naik______________________ DEPARTMENT: __Accountancy_______ CLASS: ___SYBCOM____
SEMESTER: IV (Subject : Direct tax

MONTH: JANUARY TO APRIL ACADEMIC YEAR 2022-23 __________

LEARNING OBJECTIVE/S: Difference in direct and indirect tax, meaning of income from salary, difference in allowance and perquisites, allowance, perquisites, gratuity,leave encashment, pension, retrenchment compensation, different types of house property, deduction u/s 24, gross annual value, net annual value, preconstruction interest, arrears and unrealised rent, income from business and profession, expenses which are allowed as deduction, expenses not allowed as deduction, section 32-37. Deduction under chapter VI A 80A,,80U,80D,80DD,80TTA,80E,80C,80CCC,80CCE

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	1. Intriduction 2. Definitions	2 2	Manan publication	Black board, ppt presentation

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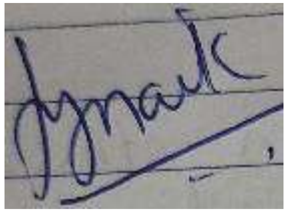
TEACHING PLAN (UNIT PLAN)

	3. Income from salary 4. Income from houseproperty 5. Income from capital gains 6. 6. Income from business and profession 7. Income from other sources 8. Deductions 9. Total income	5 4 5 5 5 4 4 3		



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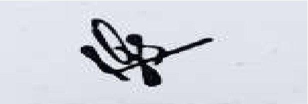

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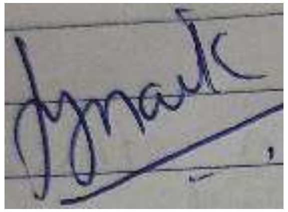
TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____35



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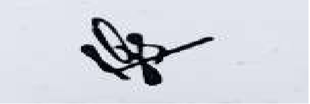

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: V Subject: COST ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2 & 3	**Introduction To Cost Accounting** Objectives & scope of cost accounts, cost centre & cost units, cost Classification for stock valuation, coding system, elements of cost , cost Behaviour pattern	04	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.
	Classification Of Cost & Cost Sheet Classification of cost , cost of sales , cost unit, cost centres, cost sheet , Total cost & cost unit different cost for different purpose, simple Practical problems on preparation of cost sheet	15	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.
	Material Cost Procurement procedures Inventory control -techniques Inventory accounting Practical problems based on calculation of EOQ, material turnover ratio, Valuation of inventory based on FIFO method & weighted average method	11	Arora M.N. Vikas Publication	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: TYB.COM – O

SEMESTER: V MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: EXPORT MARKETING

LEARNING OBJECTIVE/S:
1. To provide basic conceptual and applicative knowledge about exports and imports
2. To develop the student's employability and interpersonal skills

PAPER, UNIT, TITLE	SUBTOICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
MODULE 3 India's Foreign Trade Policy	Foreign Trade Policy (FTP) 2015-20 - Highlights and Implications, Export Trade facilitations and ease of doing business as per the new FTP	03	• Export Policy Procedures& Documentation– M. I. Mahajan, Snow White Publications Pvt. Ltd, 26th Edition, • International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd.,6th Edition	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google form Google classroom, PPTs)
	Role of Directorate General of Foreign Trade (DGFT), Negative list of Exports, Deemed Exports	03		
	Benefits to Status Holders & Towns of Excellence; Common benefits for EHTP, BTP and STP; Benefits enjoyed by (IIAs) Integrated Industrial Areas (SEZ), EOU,AEZ	05		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: MANISHA RAMCHANDRA BHOSALE DEPARTMENT: B.COM CLASS: TYB.COM – O

SEMESTER: V MONTH: August-November ACADEMIC YEAR: 2022-2023 SUBJECT: EXPORT MARKETING

LEARNING OBJECTIVE/S:1. To provide basic conceptual and applicative knowledge about exports and imports
2. To develop the student's employability and interpersonal skills

PAPER, UNIT, TITLE	**SUBTOICS**	**NO. OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ICT TOOLS USED**
	Financial Incentives available to Indian Exporters - Marketing Development Assistance (MDA), Market Access Initiative (MAI), Assistance to States for Infrastructure Development for Exports (ASIDE), Industrial Raw Material Assistance Centre(IRMAC),	04	• Export Policy Procedures& Documentation– M. I. Mahajan, Snow White	1.Lecture and discussion. 2. Flow charts. 3.Online teaching learning tools (google meet, google

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MODULE 4 Export Incentives and Assistance	Institutional Assistance to Indian Exporters - Federation of Indian Export Organisations (FIEO), India Trade Promotion Organisation (ITPO), The Federation of Indian Chambers of Commerce and Industry (FICCI), Export Promotion Councils (EPCs) & Commodity Boards (CBs), Indian Institute of Foreign Trade (IIFT), Indian Institute of Packaging (IIP)	04	Publications Pvt. Ltd, 26th Edition, • International Business, K. Aswathappa, McGraw-Hill Education (India) Pvt. Ltd.,6th Edition	form Google classroom, PPTs)
	Schemes - Export Promotion Capital Goods (EPCG) Scheme, Duty Exemption and Remission Schemes, Export Advance Authorisation Scheme; Duty Drawback (DBK); IGST Refund for Exporters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _________Tejaswini Naik__________________ DEPARTMENT: accountancy CLASS: Fybcom SEMESTER: _1_ (Subject : financial accounting)

MONTH: june-sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To give students an overview of how to keep systematic record of financial accounts and facilitate decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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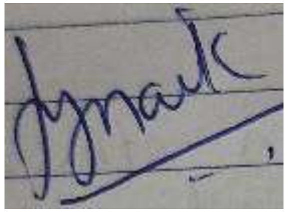

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	SUBTOPICS 1.Accounting standard 1 , 2 , and 9- Disclosure of accounting policies, stock valuation and revenue recognition.(theory only) 2. Inventory valuation – PROcess of purchase of inventory, method of valuation of stock- FIFO and weighed average method theory and practical questions. 3. Capital and revenue expenditure- difference, features, revenue income, capital income, theory and practical questions.	5 6 3	Manan publication	Blackboard

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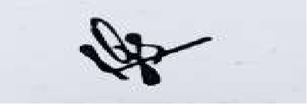

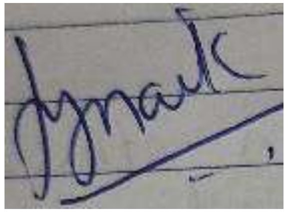

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TEACHING PLAN (UNIT PLAN)

	6. Accounting for Hire Purchase Meaning Calculation of interest Accounting for hire purchase transactions by asset purchase method based on full cash price Journal entries, ledger accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	7		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____21

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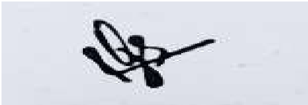

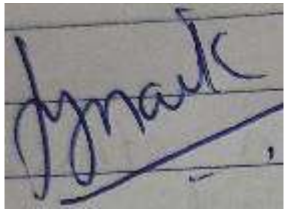

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Jinal Chohan_ DEPARTMENT: ___Commerce__ CLASS: TYBCOM O SEMESTER: _5_ (Subject :Export marketing_)

MONTH: __June-Dec______ ACADEMIC YEAR: 2022-23_____

LEARNING OBJECTIVE/S: The learners will be able to learn various aspects about Export marketing. The students will have insight in the field of exports

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
MODULE I : INTRODUCTI ON TO EXPORT MARKETING	●Importanceof Exports Distinction between Domestic Marketing and Export Marketing ●Factors Influencing Export Marketing Major merchandise /commodities Export of India	10	Export Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__10__

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APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
MODULE II - India's Foreign Trade Policy	1. Foreign Trade Policy 2015-20 2. Role of Directorate General of Foreign Trade(DGFT) 3. Benefits to Status Holders and Towns of Excellence	**10**	Export Marketing Management by Philip Kotler	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__10__

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce__ CLASS: __TYBCOM __ SEMESTER: V__ (Subject : MHRM__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: 1.To understands the concepts of marketing management 2.To learn about marketing process for different types of products and services 3. To understand the tools used by marketing managers in decision situations 4. To understand the marketing environment

APER, UNIT, TITLE	SUBTOPIC S	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 INTRODUCTION TO MARKETING	Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Marketing Research- Concept, Features, Process Marketing Information System- Concept, Components Data Mining- Concept, importance			
	Consumer Behaviour- concept, Factors Influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of Market Segmentation			

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	CRM- Concept Techniques Market Targeting- Concept, Five Patterns of Target Market Selection			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 2 MARKETIN G DECISION-I	**MARKETING MIX, Product Decision Areas, PLC, Branding, Brand Equity Packaging, Product positioning, service Positioning Pricing**	12	Phillip Kotler. (2005) Marketing Management,	**Chalk and Board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 MARKETIN G DECISION -II	**Physical Distribution, supply Chain Management**	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Promotion , Integrated Marketing Communication			
	Sales Management, Personal Selling			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__

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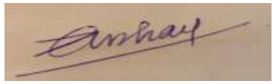
APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 KEY MARKETING DIMENTIONS	Marketing Ethics, Competitive Strategies Rural Marketing, Digital Marketing , Green Marketing Challenges Faced by Marketing Managers, Careers in Marketing, Factors contributing to Success of Brands in India, Reasons for Failure of Brands in India	12	Phillip Kotler. (2005) Marketing Management,	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12__



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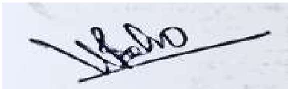

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are the Provision regarding Income from House Property under Income Tax Act, 1961.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Income From House Property:** Section 22 to 27, Including Section 2 - Annual Value	15	1.Direct Taxes Law & Practice by V.K Singhania-TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are the Provision regarding Income from Business and Profession under Income Tax Act, 1961.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Profits & Gains From Business & Profession, Vocation** Section 28 to 32, 36, 37, 40, 40A, 43B, 44AD, 44ADA & 44AE Including.: Section 2 – Business	15	1.Direct Taxes Law & Practice by V.K Singhania-TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. What are provision of Income from Capital Gain under Income Tax Act, 1961
2. What are provision of Deductions under Chapter VI - A under Income Tax Act, 1961

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HEADS OF INCOME	**Salary Income: Section 15 – 17** Including Section 10 relating to House Rent Allowance, Travel Concession, Special Allowance, Gratuity, Pension ,Commutation, Leave Encashment, Compensation, Voluntary Retirement, Payment from Provident Fund	15	1.Direct Taxes Law & Practice by V.K Singhania- TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom
Deductions under Chapter VI – A	**80 A-**Restriction on claim in Chapter VI- A deductions **80 C-** Payment of LIC/PF and other eligible investments **80CCC -** Contribution to certain Pension Fund **80D -** Medical Insurance Premium **80 DD-** Maintenance and medical treatment of handicapped dependent **80E -** Interest on Educational Loan **80 TTA-**Interest on Saving Bank account **80D -** Deduction in the case of totally blind or physically handicapped or mentally retarded resident person			Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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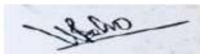

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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– N,O** SEMESTER: **V**
MONTH: **June to October 2022** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

1. How to Compute Taxable income of Individual and HUF.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
COMPUTATION OF TOTAL INCOME	Computation of Total Income of Individual and HUF with respect to above heads and deductions	15	1.Direct Taxes Law & Practice by V.K Singhania-TAXMAN 2.Systematic Approach to Direct Tax by Ahuja & Gupta 3. Student guidance to Income Tax.	Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B. Com. (Division A B C D I J) SEMESTER: V

MONTH: July to October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of income from House Property and calculation of income from House Property.
2) Understand & Remember- the meaning of Income from Business / Profession and calculation of Income from Business / Profession.
3) Understand & Remember- the meaning of Capital Assets and Calculation of Income thereon

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Heads of Income	Income from House Property	3	Book by Manan publications/Internet	Board and chalk
	Income from Business/ Profession	4	Book by Manan publications/Internet	Board and chalk
	Income from Capital Gain	3	Book by Manan publications/Internet	Board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO ALL DIVISIONS: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B. Com. (Division A B C D I J)

SEMESTER: V MONTH: July to October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of Other sources and calculation of Income thereon.
2) Calculation of Total Income considering all heads of income
3) Understand & Remember- the meaning of Capital Assets and Calculation of Income thereon

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Heads of Income	Income from Other Sources	2	Book by Manan publications/Internet	Board and chalk
	Calculation of Total Income	4	Book by Manan publications/Internet	Board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE DIVISON : 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mrs. Manjushri Oak ___ DEPARTMENT: __Commerce__ CLASS: _T.Y.Bcom SEMESTER: V (Subject : Computer System And Application)

MONTH: NOVEMBER - MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S:
Learners will be able to understand the concept of Internet , computer Network , searching methods and cybercrime. Learners will be able to analyze the information using Spread Sheet and MySQL using SQL Language.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –I Data communication, networking and Internet	Data communication and components, data representation, distributed processing	01	Computer System And Application Manan Prakashan	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Network basics and infrastructure - Definition, types (LAN,MAN,WAN) - Network structure - Topologies – Star, Bus Ring	01		

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TEACHING PLAN (UNIT PLAN)

	- Network media, wired- Twisted Pair , Co-axial, Fiber Optic and wireless radio and infrared. - Network hardware - HUBS, Bridges, Switches, Routers Network Protocols	01		
	Internet – Definition, Types of Connection, Hot-Spot, Services on Net – www, email, blog IP address, domain name, URL, Hyperlink, web browser, searching directories, Search engine, Boolean search (AND OR NOT), Advance search, meta search E-mail, parts of email address , cybercrime, hacking, sniffing, spoofing	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: <u>06</u>

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit –II DATABASE AND MYSQL Unit – III DATABASE AND MYSQL	INTRODUCTION TO MYSQL	03	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	MYSQL BASIC	03		
	MYSQL built-in Functions , Multi table queries	06		
	Transaction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: <u>14</u>

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TEACHING PLAN (UNIT PLAN)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4- MS-EXCEL	Excel- Calculations using Avg., Sum functions	02	Computer System And Application Manan Prakashan and www.wikipedia.com	POWER POINT PRESENTATION AND DISCUSSION METHOD , Board , Chalk and Duster
	Excel- Calculation of pivot Table.	02		
	Excel- Calculation of Selling Price. Simple interest and Compound Interest Excel- Excel Functions.	04		
	Excel- Calculation of Subtotal.	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

Practicals : - Computer System And Application
Sem - V

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

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TEACHING PLAN (UNIT PLAN)

DEPARTMENT: COMMERCE- ACCOUNTANCY   CLASS: TYBCOM   SEMESTER: V (SUBJECT: COST ACCOUNTING   MONTH: JUNE TO OCT   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: APPLY THESE COST RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. INTRODUCTION TO COST ACCOUNTING	OBJECTIVES & SCOPE OF COST ACCOUNTS, COST CENTRE & COST UNITS, COST CLASSIFICATION FOR STOCK VALUATION, CODING SYSTEM, ELEMENTS OF COST , COST BEHAVIOUR PATTERN	10	COST ACCOUNTING BY ARORA M.N. VIKAS PUBLICATION	Chalk & Duster Google classroom, PPT
2. CLASSIFICATION OF COST & COST SHEET	CLASSIFICATION OF COST , COST OF SALES , COST UNIT, COST CENTRES, COST SHEET , TOTAL COST & COST UNIT DIFFERENT COST FOR DIFFERENT PURPOSE, SIMPLE PRATICAL PROBLEMS ON PREPARATION OF COST SHEET	10	ADVANCED PROBLEMS AND SOLUTIONS IN COST ACCOUUNTING - S.N.MAHESHWARI	Chalk & Duster Google classroom, PPT
3 MATERIAL COST	PROCUREMENT PROCEDURES INVENTORY CONTROL -TECHNIQUES INVENTORY ACCOUNTING PRATICAL PROBLEMS BASED ON CALCULATION OF EOQ, MATERIAL TURNOVER RATIO, VALUATION OF INVENTORY BASED ON FIFO METHOD & WEIGHTED AVERAGE METHOD	10	PRINCIPLE & PRACTICES OF COST ACCOUNTING - N.K.PRASAD	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

DEPARTMENT: COMMERCE- ACCOUNTANCY CLASS: TYBCOM SEMESTER: V (Subject: FINANCIAL ACCOUNTING) MONTH: JUNE TO OCT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO IMPART THE PRACTICAL KNOWLEDGE OF FINANCIAL ACCOUNTING.

THE LEARNERS WILL BE ABLE TO: APPLY THESE FINANCIAL ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Internal Reconstruction	Meaning and Need of Internal Reconstruction, Difference between internal reconstruction and external reconstruction, methods and legal procedures. Accounting procedures, journal entries on internal reconstruction. Accounting procedures, journal entries on internal reconstruction. Practical Illustrations	15	.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT
2. Preparation of Final Accounts of Companies	**Preparation of Final Accounts of Companies** Relevant provisions of Companies Act related to preparation of Final Account (excluding cash flow statement) Preparation of financial statements as per Companies Act. (excluding cash flow statement) AS 1 in relation to final accounts of companies (disclosure of accounting policies) Adjustments.	15	S.N. MAHESHWARY, KHAN & JAIN, Timothy R. Mayes	Chalk & Duster Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: V (Subject :Financial accounting)

MONTH: JUNE-OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Financial Accounting.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Investment Accounting	Meaning of Investments, AS 13, types of investments, accounting for investment accounting as per As 13, Ex and cum interest prices, weighted average method, format of investment accounts, practical illustrations.	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2 Buy back of shares	Legal provisions related to buy back, restrictions, power, transfer to CRR, Compliances, journal entries, practical illustrations.	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 3: Ethical behaviour and implication for Accountants	Meaning of ethical behaviour, corporate governance, corporate social responsibility, Rule based and principal based approach, IFAC code of ethics	15	Khan & Jain	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA Monali Sankhe DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B.COM div M,N SEMESTER: V MONTH: JUNE TO OCT ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Financial Accounting.
THE LEARNERS WILL BE ABLE TO: To apply the financial accounting techniques in day to day life practically.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Investment accounting	Meaning of Investments, AS 13, types of investments, accounting for investment accounting as per As 13, Ex and cum interest prices, weighted average method, format of investment accounts, practical illustrations.	15	Manan Prakashan, ICAI material	Chalk & Duster, Google classroom, PPT
2. Buy back of shares	Legal provisions related to buy back, restrictions, power, transfer to CRR, Compliances, journal entries, practical illustrations.	15	Manan Prakashan, ICAI material	Chalk & Duster , Google classroom, PPT
3. Ethical behaviour and Implication for accountants.	Meaning of ethical behaviour, corporate governance, corporate social responsibility, Rule based and principal based approach, IFAC code of ethics	15	Manan Prakashan, ICAI material	Chalk & Duster , Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 per Division

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NAME OF THE STAFF: NEELAM.R. RATHORE DEPARTMENT: Commerce CLASS: T.Y.B.COM SEMESTER: V **(**Subject: Computer Systems and Application)

MONTH: JUNE – OCT. ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the concept of Data Communication, Various communication media, and Various types of networks.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit-I Data Communication, Networking and Internet	Data Communication: Definition, Components, Data Representation, Data Transmission, Types Of Network(LAN, MAN, WAN), Network topology(STAR, BUS, RING, MESH), Network Media, Network Hardware, OSI(Open System Interconnection) Internet (Types of connections, Definitions), Services on the net, IP addresses, Domain Names, URLs, Hyperlinks, Web Browsers, Email, Cyber Crime, Hacking, Spoofing, Sniffing.	18	Computer System And Application Manan Prakashan	Black Board And Discussion Method

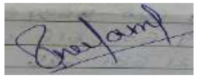
Unit-II Databases and MYSQL	SQL Basics: Primary, foreign and candidate key, Tables, data, information, Naming rules and conventions, database architecture, Database Queries: Datatypes, Create table, insert into table, deletion, updating, altering of data, Function- Text Function, Date and time function, Mathematical function,	09	Computer System And Application Manan Prakashan MYSQL The Complete Reference – By James.R. Groff	Black Board And Discussion Method
Unit-III Databases and MYSQL	MYSQL Simple Queries, select statements, filtering data using conditions, simple and complex conditions using logical, arithmetic, relational operators, Aggregate functions, Multitable queries (inner join), Nested Queries.	09	Computer System And Application Manan Prakashan MYSQL The Complete Reference – By James.R. Groff	Black Board And Discussion Method
Unit-IV Spreadsheet	Creating and Navigating worksheets and adding information to worksheets, working with Multiple Spreadsheets, Functions in Excel(Financial, Mathematical, statistical) , Data Analysis- Sorting, Subtotal, Pivot tables,	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method

Practicals : - Computer System And Application

Sem - V

Sr. No.	**Sub Topics**	**No. Of Lecture Allotted**	**TEACHING METHOD/ ICT TOOLS USED**
Practical 1	Excel Calculations using SUM, AVG functions.	02	Projector and Computer, Black Board
Practical 2	Excel – Calculations of Subtotal	02	Projector and Computer, Black Board
Practical 3	Excel - Calculations of Pivot Table	02	Projector and Computer, Black Board
Practical 4	Excel – Excel functions	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations selling Price	02	Projector and Computer, Black Board
Practical 6	MYSQL- creation of database and tables	02	Projector and Computer, Black Board
Practical 7	MYSQL- inserting values in tables	02	Projector and Computer, Black Board
Practical 8	MYSQL-alteration of columns	02	Projector and Computer, Black Board
Practical 9	MYSQL-Basic queries (select update, delete, Drop)	02	Projector and Computer, Black Board
Practical 10	MYSQL- Use of group by and Order by statements	02	Projector and Computer, Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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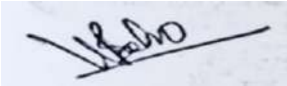

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.NILESHWARI VINAY GHUMRE

_ DEPARTMENT: COMMERCE. _ CLASS: SYBCOM SEMESTER: SEM IV_ MONTH: JAN TO MARCH ACADEMIC YEAR: 2022-23 SUB: COMMERCE IV

LEARNING OBJECTIVE/S:
The learners will be able to : Understand Quality Management, Quality Management Techniques, Service Quality Management .

Recent trends in finance

PAPER, UNIT, TITLE	SUBTOPICS ***Introduction to Quality:** Dimensions of Quality, Cost of Quality, Types of Quality.	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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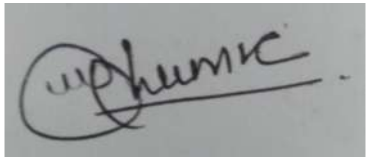
MODULE 2. QUALITY MANAGEMENT	***Quality Management Tools:** TQM : Importance , Six Sigma: Process . ISO:9000- Certification Process. Kaizen -Process. ***Service Quality Management:** Importance, SERVQUAL MODEL, Measures to improve service Quality.	**10**	**1.Production & operation management: L.C. Jhamb.**	**Google Meet goggle form**
MODULE 3. INDIAN FINANCE SYSTEM .	Indian financial system structure, primary Market IPO ,NSDL ,CDSL,SEBI stock market Credit Rating CRISIL CARE ICRA ***Derivative Market:** Types, Participants, Types of Derivative instrument	**12**	**2.Indian financial system: M.Y Khan. Tata McGraw.**	

[Type h  ere]

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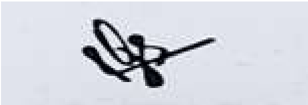

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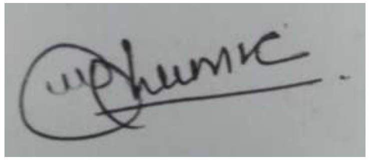
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

[Type h  ere]

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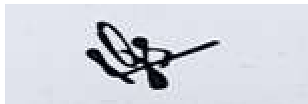

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEDA DEPARTMENT: _Commerce___ CLASS: _TYBCOM K L M N O SEMESTER: V

(Subject : MHRM__________________) MONTH: JUNE ADEMIC YEAR: _2022-23____________________

LEARNING OBJECTIVE/S: 1.To understands the concepts of marketing management 2.To learn about marketing process for different types of products and services 3. To understand the tools used by marketing managers in decision situations 4. To understand the marketing environment

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 1 INTRODUCTION TO MARKETING	Marketing, Concept, Features, Importance, Functions, Evolution, Strategic v/s Traditional Marketing	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Marketing Research- Concept, Features, Process Marketing Information System- Concept, Components Data Mining- Concept, importance			

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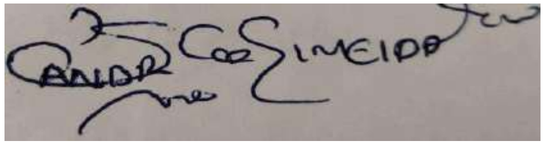
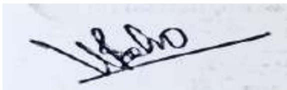
(Commerce)

TEACHING PLAN (UNIT PLAN)

	Consumer Behaviour- concept, Factors Influencing Consumer Behaviour Market Segmentation- Concept, Benefits, Bases of Market Segmentation			





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TEACHING PLAN (UNIT PLAN)

	CRM- Concept Techniques Market Targeting- Concept, Five Patterns of Target Market Selection			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 2 MARKETIN G DECISION-I	**MARKETING MIX, Product Decision Areas, PLC, Branding, Brand Equity Packaging, Product positioning, service Positioning Pricing**	**12**	Phillip Kotler. (2005) Marketing Management,	**Chalk and Board**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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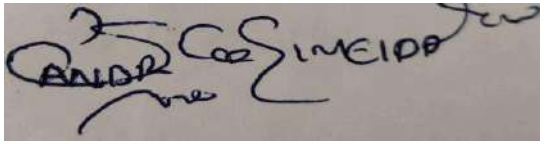
TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 3 MARKETIN G DECISION -II	Physical Distribution, supply Chain Management	12	Phillip Kotler. (2005) Marketing	Chalk and Board
	Promotion , Integrated Marketing Communication			
	Sales Management, Personal Selling			



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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENC E/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 KEY MARKETING DIMENTIONS	Marketing Ethics, Competitive Strategies Rural Marketing, Digital Marketing , Green Marketing Challenges Faced by Marketing Managers, Careers in Marketing, Factors contributing to Success of Brands in India, Reasons for Failure of Brands in India	12	Phillip Kotler. (2005) Marketing Management,	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__12___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. SONAL RAUT** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: V Subject: FINANCIAL ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2, 3 & 5	**Internal Reconstruction** • Introduction, Meaning, Need for Reconstruction • Distinction Between Internal & External Reconstruction • Methods of Reconstruction & Accounting Treatment for same • Practical problems	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Buyback of Shares • Introduction, Company Law & Legal Provisions • Capital Redemption Account, Compliance of Conditions • Maximum Limit, Debt-Equity Ratio & Cancellation of Shares • Practical problems	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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TEACHING PLAN (UNIT PLAN)

	Ethical Behaviour and Implications for Accountants • Meaning & Features of Ethics • Personal Ethics: Factors, Standards • Professional Ethics: Factors, IFAC Code of Conduct • Business Ethics: Factors • Workplace Ethics: Difficulties • Corporate Ethics: Levels, CSR, Whistle Blower • Ethical Education: Purpose, Goal/Stages	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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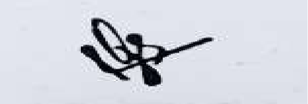

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Ms VALARMATHI TEVAR DEPARTMENT: COMMERCE

CLASS: TYBCOM Div: O SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :1. To understand Fundamental economic ideas and the operation of the economy on a national scale. 2. Basic Understanding of production, distribution and consumption of goods and services, the exchange process, the role of government, the national income and its distribution, GDP, consumption function, savings function, investment spending and the multiplier principle 3. Acquire basic knowledge of the influence of government spending on income and output. 4. Develop ability to analyze monetary policy, including the banking system and the Federal Reserve System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS Module II : Agriculture During Post Reform Period	National Agricultural Policy 2000 : Objectives, Features and Implications ♦ Agricultural Pricing and Agricultural Finance ♦ Agricultural Marketing Development : Agricultural Market Infrastructure – Market Information – Marketing Training – Enabling Environments – Recent Developments	12	MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee 5th Revised Edition – June 2022	CHALK AND DUSTER

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Ms VALARMATHI TEVAR DEPARTMENT: COMMERCE

CLASS: TYBCOM Div: O SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. To understand Fundamental economic ideas and the operation of the economy on a national scale. 2. Basic Understanding of production, distribution and consumption of goods and services, the exchange process, the role of government, the national income and its distribution, GDP, consumption function, savings function, investment spending and the multiplier principle 3. Acquire basic knowledge of the influence of government spending on income and output. 4. Develop ability to analyze monetary policy, including the banking system and the Federal Reserve System.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS Module III : The Industry and Service Sector During Post-Reform Period.	Policy Measures, Competition Act, 2002 : Disinvestment Policy, Micro, Small and Medium Enterprises [MSME Sector] Since 2007 ♦ Industrial Pollution in India : Meaning, Types, Effects and Control ♦ Service Sector : Recent Trends, Role and Growth in Healthcare and Tourism Industry	12	MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee	Chalk and duster

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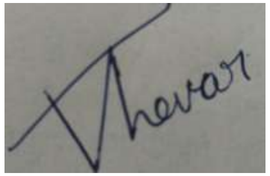
			5th Revised Edition – June 2022	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:12



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tejaswini Naik DEPARTMENT: Accountancy CLASS: Tybcom SEMESTER: VI (Subject : Indirect tax)

MONTH: December- march ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: WHAT IS INDIRECT TAX
The learners will be able to : Difference in direct and indirect tax, how to calculate gst , registration process

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIRECT TAX	1.Definition s: goods, business, consideration, e-commerce, India, person,principal supply,services, supplier, taxable supply, taxable person,n on taxable supply	5 lectures 15 lectures 15 lectures	Anaspure, manan publication	Black board

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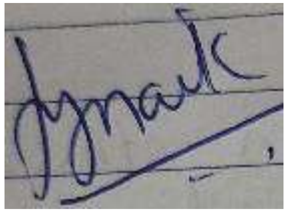
TEACHING PLAN (UNIT PLAN)

	2.Levy and collection of tax: scope of supply, non taxable supplies, composite and mixed supply, composition levy, exemption from tax, levy and collection of tax 3. Time, place and value of supply: time of supply, value of supply, place of supply.			
	4. Input tax credit			
	5.Registration under GST	5		



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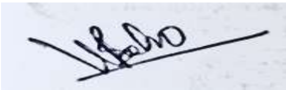

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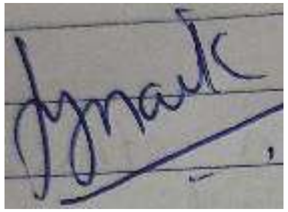
PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
	6 payment of tax 7.computation of liability and tax	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:____45



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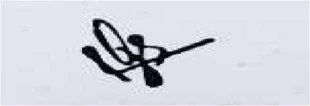

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NAME OF THE STAFF: AMITA RAKESH PATIL DEPARTMENT: ACCOUNTANCY CLASS: TYBCOM SEMESTER: 6 (Subject : Financial Accounting)

MONTH: November-March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit – 1 Amalgamation , Absorption and External Reconstruction	Meaning and Types of amalgamation, Accounting procedure of Vendor Company and Purchasing Company, Calculation of Purchase Consideration. Practical Problems	**15**	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 2 Accounting of transactions of Foreign Currency	Meaning and accounting effects of changes in foreign exchange rates, translation of transcations in foreign currency, transactions of balances at year end, accounting for exchange difference. Practical Problems	**15**	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 3 for Accounting Limited Liability partnership	Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP , format of Balance sheet. Practical problems on final accounts	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method

Unit-4 Underwriting of_shares_and Debentures	Meaning of underwriting and underwriting commission , payment of commission to underwriters , sub- underwriters , brokers etc. Types of underwriting, explaination about marked, unmarked and firm underwriting and liability of underwriters. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method
Unit- 5 Liquidation of Companies	Meaning of liquidation and winding up,preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidators statement of account. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and Board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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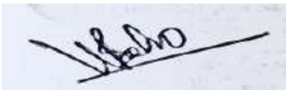

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : Archana Ramchandra Patil DEPARTMENT : Commerce

CLASS : TYBCOM (I,J) SEM : VI SUB: Commerce VI MONTH : DEC-March YEAR : 2022-23

LEARNING OBJECTIVE/S : The learners will be able to learn importance of human resource management.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I: Human Resource Management	Human Resource Management, human resource planning, job analysis, job design, recruitment, selection, E-selection	12	Human ResourceManagement by John Storey	Chalk & board
UNIT II Human Resource Development	Human resource development, training, performance appraisal, potential appraisal, career planning, succession planning, mentoring, counselling	12	HumanResource Management by John Storey	Chalk & board

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UNIT III Human Relations	Human relations, leadership, motivation, employee morale, EQ & SQ, employee grievance, employee welfare measures and health and safety measures	12	Human Resource Management by John Storey	Chalk & board
UNIT IV Trends in human resource management	HR in changing environment, competencies, learning organisation, innovation culture, trends in HRM, employee engagement, HRIS, changing pattern of employment, challenges of HRM, employee empowerment, workforce diversity, attrition, downsizing, employee absenteeism, work life balance, sexual harassment at workplace, HR practices, Millennial competency mapping	12	Human Resource Management by John Storey	Chalk & board

TOTAL NUMBE OF LECTURES ALLOCATED TO THE UNIT: 48

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mr. ARJUN VISHWAKARMA_ DEPARTMENT: _Commerce_______ CLASS: _ T.Y.Bcom SEMESTER: VI (Subject : Computer System And Application) MONTH: NOVEMBER- MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S: Learner will able to understand benefits of e-commerce, payment system, business modules etc..
Learner will able to learn fundamentals of designing , implementing and distributing a visual basic application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
E- Commerce	Definition of e-commerce, features of e-commerce, types of e-commerce, B2C,B2B,C2C,P2P.	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Googlee Meet Board , Chalk and Duster
	Business Modules- Advertising, subscription, transaction fee, Sales revenue, Affiliate Revenue.	02		
	Major B2c Models. E-commerce security Encryption- digital signature, SSL. Payment system	01		
	Online credit card Transaction working, SET protocol. Limitations of e-commerce. M-commerce – Definition and features.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Visual Basic	Introduction to VB GUI and programming language, Visual Basic Environment,	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Introduction to VB control, designing the user interface, coding of controls, and role of properties.	01		
	Use of variables and controls, data types, naming rules/convention, declaring variables, val function and operation, formatting data,	07		
	Project related to decision and condition, use of statement, function with option button and check boxes	02		
	Input validation, Sub-procedure and Sub-function,	03		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Spreadsheet.	Creating and using Templates, Using Predefined templates, Adding protection option. Creating and Linking Multiple Spreadsheet.	02	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Using Formulas and logical operators with different examples.	02		
	Creating and using named ranges. Creating Formulas that use reference to cells in different worksheets with examples.	02		
	Database functions LOOKUP,VLOOKUP,HLOOKUP Conditional Logic Functions IF,COUNTIF,SUMIF,AVERAGEIF WITH EXAMPLES String Functions	03		
	Date Functions, Statistical Functions, Data Analysis using Filter with customized condition and Graphical representation of data using different charts. ,Using Scenarios ,Creating and managing Scenarios, Goal Seek. , Solver Understanding Macros, Creating, Recording and running Simple macros.	09		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

Practicals : - Computer System And Application

Sem - VI

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations of Taxable Income (If Statement)	01	Computer, Ms-Excel
Practical 2	Excel – Date and Time Function	01	Computer, Ms-Excel
Practical 3	Excel - Text Functions	01	Computer, Ms-Excel
Practical 4	Excel – Use of V lookup function	01	Computer, Ms-Excel
Practical 5	Excel – Maths Function	01	Computer, Ms-Excel
Practical 6	Excel- Advance filter use of charts (Pie, Bar etc.)	01	Computer, Ms-Excel
Practical 7	Visual Basic - Project on welcome message	01	Computer, Visual Studio 6.0
Practical 8	Visual Basic - Calculations of simple and compound interest	01	Computer, Visual Studio 6.0
Practical 9	Visual Basic - Project on text specification(change of font and colour)	01	Computer, Visual Studio 6.0
Practical 10	Visual Basic - Calculating factorial of numbers (Loops)	01	Computer, Visual Studio 6.0

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Audrin Anthony Colaco DEPARTMENT: Accountancy CLASS: TYBCOM SEMESTER: VI (Subject :Direct Taxation)

MONTH: Dec 2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Know the process under GST

To Understand concept of GST

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Registration	Rules for Registration, Practical Problems	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom
Input Tax Credit	Rules of ITC , Practical Problems	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom
Collection and Levy	Exempted list, Negative List, Computation of GST	10	Manan Prakashan,	Lecture Method , Black board, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Business Economics CLASS: TYBCOM SEMESTER: VI (Subject: Business Economics VI

MONTH: November - March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The student must be able to understand basic concept and theories of international economics

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Business Economics VI	Unit I Theories of International Trade - Ricardo’s Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations.	3 lectures per week	International Economics : Domnic Salvator International Economics : M.L. Jhingan	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives:-EU and Brexit, ASAEN	3 lectures per week	International Economics : Domnic Salvator International Economics : M.L. Jhingan	Chalk and Board Google Classroom Classroom Discussions
	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTO-		International Economics : Domnic Salvator International Economics : M.L. Jhingan .	Chalk and Board Google Classroom Classroom Discussions
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.		International Economics : Domnic Salvator	Chalk and Board Google Classroom Classroom Discussions

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TEACHING PLAN (UNIT PLAN)

			International Economics : M.L. Jhingan	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___10_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Rakhee Oza DEPARTMENT: Commerce CLASS: T.Y.B.Com (E,F) SEMESTER: VI

MONTH: June to Oct ACADEMIC YEAR: 2022-2023 Subject: Commerce

LEARNING OBJECTIVES:
To acquaint the learners with the basic concepts of Production Management, Inventory Management.

.PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
UNIT I:	Human Resource Management, human resource planning, job analysis, job design, recruitment, selection, E-selection	10	Human ResourceManagement by John Storey	Chalk & board
UNIT II	Human resource development, training, performance appraisal, potential appraisal, career planning, succession planning, mentoring, counselling	10		

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TEACHING PLAN (UNIT PLAN)

UNIT III	Human relations, leadership, motivation, employee morale, EQ & SQ, employee grievance, employee welfare measures and health and safety measures	10		
UNIT IV	HR in changing environment, competencies, learning organisation, innovation culture, trends in HRM, employee engagement, HRIS, changing pattern of employment, challenges of HRM, employee empowerment, workforce diversity, attrition, downsizing, employee absenteeism, work life balance, sexual harassment at workplace, HR practices, Millennial competency mapping	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPA PRADEEP DALVI DEPARTMENT: COMMERCE CLASS: TYBCOM (DIV M) SEMESTER: VI(Subject : HRM – COMMERCE VI)

MONTH: NOVEMBER TO FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: <u>To gain the knowledge of Human Resource Management .</u>

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1 HRM	Human resource management- concept functions importance traditional versus strategic hrm Human resource planning- concept steps in human resource planning Job analysis concept components, job design concept technique Recruitment sources of recruitment Selection concept process techniques of E- SelectionHuman resource development – concept and functions	10	Human Resource Management – Gary Dessler , Biju Varkkey	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 2 HRD	Human resource development – concept and functions Training methods of training evaluating training effectiveness Performance appraisal concept and importance, benefits and limitations methods			
Unit 3 Human relations	Human relations concept and significance Leadership concept transactional transformational leadership Motivation concept theories of motivation Maslow need hierarchy theory, vrooms expectancy theory, macgregors theory X theory y, pinks theory of motivation Employees morale emotional quotient and spiritual quotient Employee grievance causes procedure of redressal Employee welfare majors and health and safety measures	12	Human Resource Management – Gary Dessler , Biju Varkkey	Chalk and talk method

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TEACHING PLAN (UNIT PLAN)

Unit 4 : Recent Trends in HRM				
	HR in changing environment Competencies concept classification Learning organization, innovation culture Trends in human resource management Employee engagement concept and types Human resource information system	12	Human Resource Management – Gary Dessler , Biju Varkkey	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

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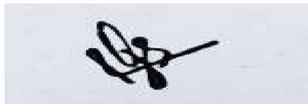

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Delcy Lopes DEPARTMENT: Accountancy CLASS: T.Y.B. Com. SEMESTER: VI (Subject : Financial Accounting)

MONTH: November - MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit - 1	**Amalgamation ,Absorption and External Reconstruction-** Meaning and Types of amalgamation, Accounting procedure of Vendor Company and Purchasing Company, Calculation of Purchase Consideration. Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2	**Accounting of transactions of Foreign Currency-** Meaning and accounting effects of changes in foreign exchange rates, translation of transactions in foreign currency, transactions of balances at year end, accounting for exchange difference. Practical Problems	15	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -3	**Accounting for Limited Liability Partnership-** Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP ,	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

	format of Balance sheet. Practical problems on final accounts			
Unit – 4	**Underwriting of shares and Debentures-** Meaning, features, formula, format, practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc
Unit - 5	**Liquidation of Companies-** Meaning of liquidation and winding up, preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidators statement of account. Practical problems	10	Financial Ac. counting by R. Narayanaswamy	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:60

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. DEEPAK GUPTA** DEPARTMENT: COMMERCE CLASS: S.Y.BCom SEMESTER: III Subject: MANAGEMENT ACCOUNTING

MONTH: JUNE, JULY, AUG & SEP ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand what is GST and how it is reflected in our practical life. The learners will be able to understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3, 4 & 5	**Introduction to GST** ● What is GST ● Need for GST ● Dual GST Mode	05	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Value of Supply ● Transaction Value as Value of Supply ● CGST Rules-2017 Determination of Value of supply (Rule 27 to 35)	10	ICAI study material	Chalk-Board Method, Discussion, Google classroom.
	Input Tax Credit Stamp Payment of Tax ● Eligibility for taking Input Tax Credit ● Input Tax Credit in Special Circumstances ● Computation of Tax Liability ● Payment of Tax (Section 49 and Section 50 of CGST Act)	15	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

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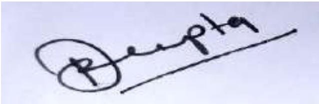
TEACHING PLAN (UNIT PLAN)

	Registration under GST Law ● Persons liable for Registration ● Persons not liable for Registration ● Compulsory Registration ● Persons not liable for Registration ● Procedure for Registration ● Amendment of Registration ● Cancellation of Registration ● Revocation of cancellation of Registration ● Practical Problems ● Exemption from GST ● Time of Supply ● Place of Supply ● Computation of GST	20	ICAI study material	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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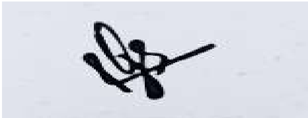

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Jagruti Naukudkar DEPARTMENT: Commerce CLASS: T.Y.B.COM DIV: M,N

SEMESTER: VI MONTH: December - March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S :

1) Knowledge based & Conceptual learning to get acquainted with objective type test.
2) Solve practical questions using concepts.
3) Financial Goal Setting & decision making.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Cost Accounting	Unit 1 Contract Costing Progress Payment, Retention Money, Contract A/C, Accounting of Mat, Treatment of profit on incomplete contract, Format of Contract A/c, Practical Problems.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method

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TEACHING PLAN (UNIT PLAN)

	Unit 2 Process Costing Process Loss, Abnormal Gain & Losses, Joint & by products, Practical Problems.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 3 Marginal costing Meaning, Cost volume profit, PV Ratio, Break Even Point, Margin of Safety, theory and Practical Problems.	8	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 4 Standard costing Imp of standard costing , Variances, Reasons of variances, labour variances and material variances, theory and Practical Problems.	8	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 5 Control Account Difference in Integrated and Non Integrated Accounting, Cost Control Account, Stock Control Account, Finished Goods Control Account, WIP Control Account.	12	Manan Prakashan, Inernet	Discussion, Notes, Videos, BlackBoard Method
	Unit 6 Some Emerging Concept of Cost A/C	8	Manan Prakashan,	Discussion, Notes, Videos, BlackBoard Method

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TEACHING PLAN (UNIT PLAN)

	Target Costing, Life Cycle Costing, Benchmarking, ABC Costing		Inernet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Mrs. Jagruti Naukudkar** DEPARTMENT**: COMMERCE** CLASS: **T.Y.B.COM** DIV: **G, K, L**

SEMESTER: **VI** MONTH: **December - March** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1) Knowledge based & Conceptual learning to get acquainted with objective type test.
2) Solve practical questions using concepts.
3) Financial Goal Setting & decision making.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit – 1 Amalgamation , Absorption and External Reconstruction	Meaning and Types of amalgamation. Accounting procedure of Vendor Company and Purchasing Company. Calculation of Purchase Consideration. Practical Problems.	15	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 2 Accounting of transactions of	Meaning and accounting effects of changes in foreign exchange rates, translation of transactions in foreign currency, transactions of balances at year end, accounting for exchange difference.	10	Manan Prakashan, Financial Ac. counting by R.	Discussion, Notes, Videos, BlackBoard

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TEACHING PLAN (UNIT PLAN)

Foreign Currency	Practical Problems.		Narayanaswamy	Method
Unit- 3 Liquidation of Companies	Meaning of liquidation and winding up,preferential payments, overriding preferential payments. Format of statement of affairs, deficit and surplus and format of liquidator's statement of account. Practical problems.	15	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 4 Underwriting of shares and Debentures	Meaning of underwriting and underwriting commission, payment of commission to underwriters, sub- underwriters, brokers etc. Types of underwriting, explanation about marked, unmarked and firm underwriting and liability of underwriters. Practical problems.	10	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method
Unit- 5 Accounting for Limited Liability partnership	Meaning of limited liability and its statutory provisions. Conversion of partnership into LLP, format of Balance sheet. Practical problems.	10	Manan Prakashan, Financial Ac. counting by R. Narayanaswamy	Discussion, Notes, Videos, BlackBoard Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Jinal Chohan_______ DEPARTMENT: __Commerce VI__ CLASS: __TYBCOM__ SEMESTER: VI__ (Subject : HRM__)

MONTH: November to March _______ ACADEMIC YEAR: __2022-23________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Human Resource Management	Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design-Concept, Techniques Recruitment- Concept, Sources of Recruitment Selection - Concept , process , Techniques of E, selection,	11	Human Resource Development" by Jon M Werner and Randy L DeSimone	Chalk and Board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED
Unit 2 Human Resource Development	Human Resource Development- Concept, functions Training-Concept, Process of identifying training and development needs, Methods of Training & Development	11	**Human Resource Development" by Jon M**	**Chalk and Board**

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			Werner and Randy L DeSimone	
	Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance			
	Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counselling- Concept, Techniques.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 3 Human Relations	Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation,(Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)			
	Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board
	Employee Grievance- Causes, Procedure for Grievance redressal Employee welfare measures and Health & Safety Measures.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Trends in human resources	HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role.	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Trends in Human Resource Management,: Employee Engagement-Concept, Types Human resource Information System (HRIS) – Concept, Importance, Changing patterns of employment.			
	Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Introduction to GST	Introduction to GST • What is GST • Need for GST • Dual GST Mode	1	Manan Prakashan, Self-maintained notes, ICAI study material	Google meet, PPTs

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 3 Value of Supply	• Transaction Value as Value of Supply • CGST RULES – 2017 Determination of Value of supply (Rule 27 to 35)_	4	Manan Prakashan, Self-maintained notes, ICAI study material	PPTs, Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

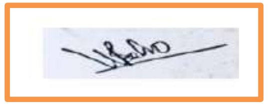
LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 4 Input Tax Credit & Payment of Tax	Input Tax Credit & Payment of Tax • Eligibility for taking Input Tax Credit • Input Tax Credit in Special Circumstances • Computation of Tax Liability • Payment of Tax (Section 49 and Section 50 of CGST Act)	4	Manan Prakashan, Self-maintained notes, ICAI study material	PPTs, Google meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

SIGNATURE OF THE STAFF



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 5 Registration under GST Law	Registration under GST Law • Persons liable for Registration • Persons not liable for Registration • Compulsory Registration • Persons not liable for Registration • Procedure for Registration • Amendment of Registration • Cancellation of Registration • Revocation of cancellation of Registration • Practical Problems	4	Manan Prakashan, Self-maintained notes, ICAI study material	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 4 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAUSHIK SAVE** DEPARTMENT: **ACCOUNTANCY** CLASS: **TYBCOM– G,H,I** SEMESTER: **VI**
MONTH: **December2022 to April 2023** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

1. To understand what is GST and how it is reflected in our practical life.
2. The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Unit 5 Registration under GST Law	• Exemption from GST • Time of Supply • Place of Supply • Computation of GST	6	Manan Prakashan, Self-maintained notes, ICAI study material	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof DR (CA) MABEL LOBO DEPARTMENT: ACCOUNTANCY CLASS:TYBCOM (DIV A,B,C,)

SEMESTER: VI MONTH: December2022 to April 2023 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To let students understand what is GST and how it is reflected in our practical life.
The learners will be able to : Understand the concept of GST and relate it with their day to day life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indirect Tax Introduction to GST	Introduction to GST ● What is GST ● Need for GST ● Dual GST Mode	1	Manan Prakashan, Self-maintained notes, ICAI study material	Google meet, PPTs

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1 per Division

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _: Mrs. Manjushri Oak _ DEPARTMENT: _Commerce__ CLASS: _T.Y.Bcom SEMESTER: VI (Subject : Computer System And Application) MONTH: NOVEMBER- MARCH ACADEMIC YEAR: _2022- 2023_

LEARNING OBJECTIVE/S: Learner will able to understand benefits of e-commerce, payment system, business modules etc..
Learner will able to learn fundamentals of designing , implementing and distributing a visual basic application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
E- Commerce	Definition of e-commerce, features of e-commerce, types of e-commerce, B2C,B2B,C2C,P2P.	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board , Chalk and Duster
	Business Modules- Advertising, subscription, transaction fee, Sales revenue, Affiliate Revenue.	02		
	Major B2c Models. E-commerce security Encryption- digital signature, SSL. Payment system	01		
	Online credit card Transaction working, SET protocol. Limitations of e-commerce. M-commerce – Definition and features.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Visual Basic	Introduction to VB GUI and programming language, Visual Basic Environment,	01	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Introduction to VB control, designing the user interface, coding of controls, and role of properties.	01		
	Use of variables and controls, data types, naming rules/convention, declaring variables, val function and operation, formatting data,	07		
	Project related to decision and condition, use of statement, function with option button and check boxes	02		
	Input validation, Sub-procedure and Sub-function,	03		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Advanced Spreadsheet.	Creating and using Templates, Using Predefined templates, Adding protection option. Creating and Linking Multiple Spreadsheet.	02	Computer System And Application Manan Prakashan and www.wikipedia.com	Power Point Presentation And Discussion Method Board ,Chalk and Duster
	Using Formulas and logical operators with different examples.	02		
	Creating and using named ranges. Creating Formulas that use reference to cells in different worksheets with examples.	02		
	Database functions LOOKUP,VLOOKUP,HLOOKUP Conditional Logic Functions IF,COUNTIF,SUMIF,AVERAGEIF WITH EXAMPLES String Functions	03		
	Date Functions, Statistical Functions, Data Analysis using Filter with customized condition and Graphical representation of data using different charts. ,Using Scenarios ,Creating and managing Scenarios, Goal Seek. , Solver Understanding Macros, Creating, Recording and running Simple macros.	09		

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

Practicals : - Computer System And Application

Sem - VI

Sr. No.	Sub Topics	No. Of Lecture Allotted	TEACHING METHOD/ ICT TOOLS USED
Practical 1	Excel Calculations of Taxable Income (If Statement)	01	Computer, Ms-Excel
Practical 2	Excel – Date and Time Function	01	Computer, Ms-Excel
Practical 3	Excel - Text Functions	01	Computer, Ms-Excel
Practical 4	Excel – Use of V lookup function	01	Computer, Ms-Excel
Practical 5	Excel – Maths Function	01	Computer, Ms-Excel
Practical 6	Excel- Advance filter use of charts (Pie, Bar etc.)	01	Computer, Ms-Excel
Practical 7	Visual Basic - Project on welcome message	01	Computer, Visual Studio 6.0
Practical 8	Visual Basic - Calculations of simple and compound interest	01	Computer, Visual Studio 6.0
Practical 9	Visual Basic - Project on text specification(change of font and colour)	01	Computer, Visual Studio 6.0
Practical 10	Visual Basic - Calculating factorial of numbers (Loops)	01	Computer, Visual Studio 6.0

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mezbin Lalani   DEPARTMENT: Accountancy   CLASS: TYBCOM   SEMESTER: VI (Subject : Cost Accounting)

MONTH: Dec- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various techniques of Cost Accounting.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED
Unit 1: Cost Control Accounts.	Meaning, advantages, Cost control accounts, principal and subsidiary accounts, preparation of cost control accounts.	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit -2 Contract Costing	Meaning, Contractor & contractee, retention money, WIP, work certified and uncertified, Contract profits, treatments, practical illustrations	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 3: Process Costing	Meaning of process industries, process account, normal loss, abnormal loss, abnormal gains, inter process profits, format of process account, practical illustrations	12	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc

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TEACHING PLAN (UNIT PLAN)

Unit 4: Standard Costing & Marginal Costing	Standard Costing methods & Marginal Costing Methods	16	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc
Unit 5: Emerging Concepts in Cost Accounting	Target costing, life cycle costing, Benchmarking, ABC costing.	08	M.L.Gupta & Agrawal	Chalk and duster, discussion, Google classroom, PDFs etc

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:__60

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TEACHING PLAN (UNIT PLAN)

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: CA Monali Sankhe DEPARTMENT: ACCOUNTANCY CLASS: T.Y.B.COM div F,G,H SEMESTER: VI MONTH: Nov March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To enable students to understand various aspects of Cost Accounting.
THE LEARNERS WILL BE ABLE TO: To apply the Cost accounting techniques to practical life cases

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Cost control accounts	Meaning, advantages, Cost control accounts, principal and subsidiary accounts, preparation of cost control accounts.	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Contract Costing	Meaning, Contractor & contractee, retention money, WIP, work certified and uncertified, Contract profits, treatments, practical illustrations.	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Process costing	Meaning of process industries, process account, normal loss, abnormal loss, abnormal gains, inter process profits, format of process account, practical illustrations	12	Manan Prakashan	Chalk & Duster,Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

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Standard costing	Types of standards, setting of standards, material variances , labour variances, practical illustrations.	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT

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TEACHING PLAN (UNIT PLAN)

Emerging Concepts in Cost accounting.	Target costing, life cycle costing, Benchmarking, ABC costing. .	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT
Marginal Costing	Meaning of marginal cost, contribution, break even analysis, margin of safety, PV ratio, practical illustrations.	8	Manan Prakashan	Chalk & Duster,Google classroom, PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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NAME OF THE STAFF: NEELAM.R. RATHORE   DEPARTMENT: Commerce CLASS: T.Y.B.COM   SEMESTER: VI **(**Subject: Computer Systems and Application)

MONTH: NOV – OCT.   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the concept of Data Communication, Various communication media, and Various types of networks.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit-I E-Commerce	Definition , Features, Types of E-Commerce, Business Models, Major B2C models, E-Commerce Security, Encryption, Payments ,Encryption , Payment Systems, Online Credit Card Transaction ,Limitation of E-Commerce, M-Commerce.	18	Computer System And Application Manan Prakashan	Black Board And Discussion Method
Unit-II Advanced Spreadsheet	Multiple Spreadsheets, Formulas and logical Operators, functions, VLOOKUP, HLOOKUP, Conditional logic, String Functions	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method

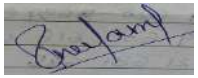
Unit-III Advanced Spreadsheet	Date and statistical functions, Data Analysis filter , Graphical representation of data, Scenarios, Goal Seek, Solver , macros	09	Computer System And Application Manan Prakashan Excel 2013 Formulas-John Walkenbach	Black Board And Discussion Method
Unit-IV Visual Basic	Introduction, VB controls, Variables, Constants, and calculations. Data types, Decisions and Conditions, Sub-Procedures and Sub-Functions	09	Computer System And Application Manan Prakashan	Black Board And Discussion Method

Practicals : - Computer System And Application

Sem - VI

Sr. No.	**Sub Topics**	**No. Of Lecture Allotted**	**TEACHING METHOD/ ICT TOOLS USED**
Practical 1	Excel Calculations using IF conditions	02	Projector and Computer, Black Board
Practical 2	Excel – Date and Time functions	02	Projector and Computer, Black Board
Practical 3	Excel - Maths Functions	02	Projector and Computer, Black Board
Practical 4	Excel – Vlookup function	02	Projector and Computer, Black Board
Practical 5	Excel – Calculations using Filter	02	Projector and Computer, Black Board
Practical 6	Excel-Graphical Representation of Data	02	Projector and Computer, Black Board
Practical 7	Visual Basic-Change of label and command buttons	02	Projector and Computer, Black Board
Practical 8	Visual Basic-Designing of Form and change of fonts and colors	02	Projector and Computer, Black Board
Practical 9	Visual Basic-Calculate Simple and Compound Interest	02	Projector and Computer, Black Board
Practical 10	Visual Basic- To calculate Factorial	02	Projector and Computer, Black Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60



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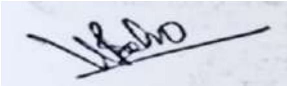

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TEACHING PLAN (UNIT PLAN)

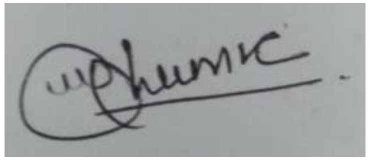
NAME OF THE STAFF: PROF.NILESHWARI VINAY GHUMRE

_ DEPARTMENT: COMMERCE. _ CLASS: SYBCOM SEMESTER: SEM IV_ MONTH: JAN TO MARCH ACADEMIC YEAR: 2022-23 SUB: COMMERCE IV

LEARNING OBJECTIVE/S:
The learners will be able to : Understand Quality Management, Quality Management Techniques, Service Quality Management .

Recent trends in finance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	***Introduction to Quality:** Dimensions of Quality, Cost of Quality, Types of Quality.			

[Type h  ere]

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MODULE 2. QUALITY MANAGEMENT	***Quality Management Tools:** TQM : Importance , Six Sigma: Process . ISO:9000- Certification Process. Kaizen -Process. ***Service Quality Management:** Importance, SERVQUAL MODEL, Measures to improve service Quality.	**10**	**1.Production & operation management: L.C. Jhamb.**	**Google Meet goggle form**
MODULE 3. INDIAN FINANCE SYSTEM .	Indian financial system structure, primary Market IPO ,NSDL ,CDSL,SEBI stock market Credit Rating CRISIL CARE ICRA ***Derivative Market:** Types, Participants, Types of Derivative instrument	**12**	**2.Indian financial system: M.Y Khan. Tata McGraw.**	

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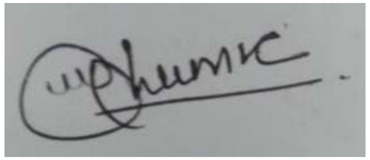
[Type h  ere]

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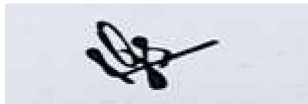

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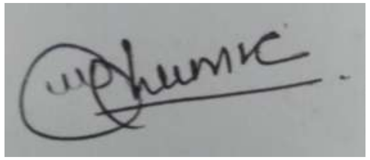
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

[Type h  ere]

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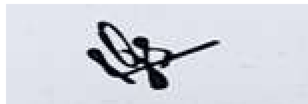

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SANDRA ALMEDA CLASS:__TYBCOM__K L M N O SEMESTER: VI
DEPARTMENT:__Commerce VI___________ ________________(Subject : HRM_______)

MONTH: November _______________ ACADEMIC YEAR:__2022-23_________

LEARNING OBJECTIVE/S: _Gain knowledge about advertising, its benefits, scope, function, different media in advertising.

APER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED
Unit 1 Human Resource Management	Human Resource Management – Concept, Functions, Importance, Traditional v/s Strategic Human Resource Management Human Resource Planning- Concept Steps in Human Resource Planning Job Analysis-Concept, Components, Job design-Concept, Techniques	11	Human Resource Development" by Jon M Werner and Randy L	Chalk and Board

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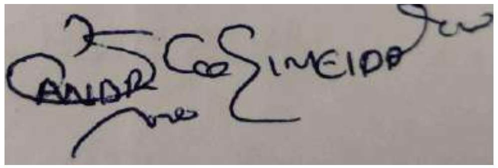
TEACHING PLAN (UNIT PLAN)

	Recruitment- Concept, Sources of Recruitment Selection - Concept , process , Techniques of E, selection,		DeSimone	



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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURES ALLOTED	REFERENCE/ S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 2 Human Resource Development	Human Resource Development- Concept, functions Training-Concept, Process of identifying training and development needs, Methods of Training & Development	**11**	**Human Resource Development" by Jon M**	**Chalk and Board**

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TEACHING PLAN (UNIT PLAN)

			Werner and Randy L DeSimone	
	Performance Appraisal- Concept, Benefits, Limitations, Methods Potential Appraisal-Concept, Importance			
	Career Planning- Concept, Importance Succession Planning- Concept, Need Mentoring- Concept, Importance Counselling- Concept, Techniques.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENCE /S	EACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

Unit 3 Human Relations	Human Relations- Concept, Significance Leadership –Concept, Transactional & Transformational Leadership Motivation- Concept, Theories of Motivation,(Maslow's Need Hierarchy Theory, Vroom's Expectancy Theory, McGregor's Theory X and Theory Y, Pink's Theory of Motivation)			
	Employees Morale- Concept, Factors affecting Morale, Measurement of Employees Morale Emotional Quotient and Spiritual Quotient- Concept, Factors affecting EQ & SQ	11	**Human Resource Development" by Jon M Werner and Randy L DeSimone**	Chalk and Board
	Employee Grievance- Causes, Procedure for Grievance redressal Employee welfare measures and Health & Safety Measures.			

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APER, UNIT, TITLE	SUBTOPIC	NO OF LECTURE S ALLOTED	REFERENC E/S	EACHING METHOD/ ICT TOOLS USED
Unit 4 Trends in human resources	HR in changing environment: Competencies- concept, classification Learning organizations- Concept, Creating an innovative organization, Innovation culture- Concept, Need, Managerial role.	11	**Human Resource Developmen t" by Jon M Werner and Randy L DeSimone**	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Trends in Human Resource Management,: Employee Engagement- Concept, Types Human resource Information System (HRIS) – Concept, Importance, Changing patterns of employment.			
	Challenges in Human Resource Management: Employee Empowerment, Workforce Diversity. Attrition, Downsizing, Employee Absenteeism, Work life Balance, Sexual Harassment at work place, Domestic and International HR Practices, Millennial (Gen Y)Competency Mapping			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___11_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. SONAL RAUT** DEPARTMENT: COMMERCE CLASS: T.Y.BCom SEMESTER: VI Subject: FINANCIAL ACCOUNTING

MONTH: DEC, JAN, FEB & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Understand the accounting concepts which will help learners to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1, 2, 3, 4 & 5	**AS – 14 - Amalgamation, Absorption & External Reconstruction:** In the nature of merger and purchase with corresponding accounting treatments of pooling of interests and Purchase method respectively. Meaning and Computation of Purchase consideration. Problems based on purchase method only.	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Accounting of Transactions of Foreign Currency In relation to purchase and sale of goods, services and assets and Loan and credit transactions. Computation and treatment of exchange rate differences	15	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Liquidation of Companies Meaning of liquidation or winding up, Preferential payments, Overriding preferential payments, Preparation of statement of affairs, deficit / surplus account, Liquidator's final statement of account	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

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TEACHING PLAN (UNIT PLAN)

	Underwriting of Shares and Debentures Introduction, Underwriting, Underwriting Commission, Provision of Companies Act with respect to Payment of underwriting commission, Underwriters, Sub-Underwriters, Brokers and, Manager to issues, Types of underwriting, Abatement Clause, Marked, Unmarked and Firm-underwriting applications, Liability of the underwriters in respect of underwriting contract Practical problems	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.
	Accounting for Limited Liability Partnership Statutory Provisions, Conversion of partnership firm into LLP, Final Accounts	10	Financial Accounting by SN Maheshwari	Chalk-Board Method, Discussion, Google classroom.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Sunitha Nair DEPARTMENT: _Commerce_ CLASS: T.Y.B.Com (E & F) SEMESTER: VI (Subject : Business Economics)

MONTH: December - April ACADEMIC YEAR: __2022-23

LEARNING OBJECTIVE/S: The Learners will be able to understand the old school and contemprorary method and theories utilized to understand the terms of trade and exchange along with the legalities of trading relations under the policy brackets to cater the smooth international trade between nations.

PER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	ACHING METHOD/ ICT TOOLS USED

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TEACHING PLAN (UNIT PLAN)

I & II, III & IV	Unit I: Introduction to International Trade Theories of International Trade: Ricado and Heckscher - Ohlin; Terms of Trade: Types and Limitations; Gains from International Trade: Offer curves and Reciprocal Demand.	03 lectures per week	M.L. Jhingan: International Economics Dominick Salvatore: International Economics Trade and Finance	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

	Unit II: Commercial Policy Commercial Trade Policy: Free Trade & Protection , Pros & Cons; Tariff and Non-Tariff Barriers: Meaning, Types and Effects; International Economic Integration: Types and Objectives, EU & BREXIT, ASEAN	03 lectures per week	Paul Krugman: International Economics Theory and Policy. Desai and Bhalerao:	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

			International Economics	
	Unit III - BALANCE OF PAYMENT AND WTO : Concept and Structure of Balance of Payments, Causes and Disequilibrium and Measures to Correct Disequilibrium in BOP, India’s Balance of Payment since 1991 and World Trade Organisation.	03 lectures per week	M.L. Jhingan: International Economics Dominick Salvatore: International	Chalk and Board, PPT, Google form test

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TEACHING PLAN (UNIT PLAN)

			Economics Trade and Finance	
	Unit IV- FOREIGN EXCHANGE MARKET: Foreign Exchange Market, Determination of Equilibrium Rate of Exchange, Purchasing Power Parity Theory, Rate of Central Bank in Foreign Exchange Rate Management	03 lectures per week	M.L. Jhingan: International Economics	Chalk and Board, PPT, Google form test

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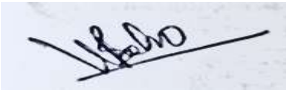

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TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:_54___

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TEACHING PLAN (UNIT PLAN)

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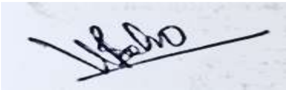

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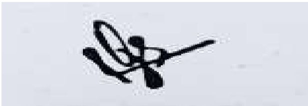

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VEENA SIHANA** DEPARTMENT: **BUSSINESS ECONOMICS** CLASS: **T.Y.BCOM** SEMESTER: **VI**

SUBJECT : **BUS. ECONOMICS-VI** MONTH: Noveber to March 2023 ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES: The student must be able to understand Introduction to International Trade, Commercial Policy, BOP & Foreign Exchange market.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	E -REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - VI	**Unit I** Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations. Gains from International trade - Offer Curves and Reciprocal Demand	**10 Lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases* *Dominick Salvatore – International Economics*	Google classroom, Google Forms CHALK DUSTER METHOD
	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International	**15 Letures**	H. L. AHUJA MORDEN ECONOMICS *M.L. Jhingan – International Economics*	

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	Economic Integration – Types and Objectives:-EU and Brexit, ASAEN			
	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTORecent Developments in TRIPS, TRIMS and GATS.	**10 Lectures**	*MANANPRAKSHAN Dr. P A Johnson – A. D. Mascarenhas – Sonali Chatterjee*	
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.	**10 Lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:___45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. VERONIKA B. BARLA** DEPARTMENT: **BUS. ECONOMICS** CLASS: **T.Y.BCOM** SEMESTER: **VI** (Subject : **BUS. ECONOMICS-VI**)

MONTH: ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVES:

The student must be able to understand **Introduction to International Trade**

The student must be able to understand **Commercial Policy**

The student must be able to understand B**alance of payments and International Economic Organization**

The student must be able to understand **Foreign Exchange market**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics - VI	**Unit I** Theories of International Trade - Ricardo's Theory of Comparative Costs and the Heckscher- Ohlin Theory. Terms of Trade - Types and Limitations. Gains from International trade - Offer Curves and Reciprocal Demand	**10 lectures**	*Mehta, P.L.: Managerial Economics – Analysis, Problem and Cases* *Dominick Salvatore – International Economics*	Google classroom, Google Forms CHALK DUSTER METHOD
	Unit-II Commercial Trade Policy –Free Trade and Protection – Pros and Cons. Tariff And Non Tariff Barriers: Meaning, Types and Effects International Economic Integration – Types and Objectives:-EU and Brexit, ASAEN	15 lectures	H. L. AHUJA MORDEN ECONOMICS *M.L. Jhingan – International Economics*	

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	Unit III: Balance of Payment: Meaning, Structure, Types of Disequilibrium. Causes and measures to correct the disequilibrium in Balance of Payments WTO- Recent Developments in TRIPS, TRIMS and GATS.	**10 lectures**		
	Unit IV: Foreign Exchange Market: Meaning, Functions, Determination of Equilibrium Rate of Exchange. Purchasing Power Parity Theory, Spot and Forward Exchange Rates, Arbitrage. Role of Central Bank in foreign exchange rate management, Managed flexible exchange rate system of India.	**10 lectures**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : To acquire information about the different concepts of nutrition like BMR, BMI and SDA. It also describes detailed information about the nutritional significance of the macro and the macromolecules of a balanced diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT 3 NUTRITION	Definitions- calorie, joule, food calorimetry, calorific value, proximate principles, BMI and BV.	2	Joshi, Shubhangani- nutrition and dietetics Srilakshmi B- Nutrition Science Biochemistry by satyanarayan	White board method
	BMR	2		White board method
	SDA/DIT	1		White board method
	Nutritional significance of carbohydrates, proteins, lipids, vitamins, minerals, fibre and water.	6		White board method
	Balanced diet and numerical problems	2		White board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:
- To learn about nucleic acid structure and it's components in detail.
- To understand evidence and properties of nucleic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II Nucleic Acids	2.1 Structure - Purine & Pyrimidine bases, ribose, deoxyribose, nucleosides and nucleotides (ATP, CTP, GTP, TTP, UTP) Formation of polynucleotide strand with its shorthand Representation	04	Lehninger, Albert L, Biochemistry, Ka Publishers ● Nelson, D. L. and Cox, M.M, (2008). Lehninger, Principles of Biochemistry 5th Edition, W. H. Freeman and Company, NY., USA.	● Students were explained via an interactive session. ● Structures of nucleic acids were shown.
	2.2 RNAs (various types in prokaryotes and eukaryotes) mRNA & r RNA - general account, t RNA - clover leaf model, Ribozymes	04		● Structures of types RNAs were explained via diagrams.
	2.3 DNA 2.3.1 Physical evidence of DNA helical structure. Chargaff's rules (chemical evidence), Watson-Crick model of DNA & its features 2.3.2 Physical properties of DNA - Effect of heat on physical properties of DNA (Viscosity, buoyant density, UV absorption), Hypochromism, hyperchromism, denaturation	07 Total: 15		● Students were explained about the evidences and properties by drawing structures and reactions.

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	of DNA. 2.3.3 Reactions of nucleic acids (with DPA and Orcinol)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **S.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

Gain knowledge about enzymes, its classification, kinetics,and enzyme inhibition.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit I Enzymology	**1.1** Definition – Enzyme, coenzyme, cofactor, apoenzyme, holoenzyme, prosthetic group, active site , enzyme specificity, Turnover number, specific activity, Katal, IU.	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.2 IUB / EC classification upto one digit. Enzyme specificity :Fischers lock & key and Koshlands induced fit theories	2	David L. Nelson, Michal M. Cox, Lehniger Principles of	White board

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			Biochemistry, W. H. Freeman & company, New york, 4th edition	
	1.3 Activation energy, mechanism of enzyme action (concept of active site, single and bi- substrate reaction), factors affecting enzyme activity – substrate concentration, pH, temperature	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.4 Enzyme kinetics – Derivation of Michaelis - Menten equation and Lineweaver Burk plot for mono-substrate reactions and numerical problems based on them.	4	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.5 Enzyme inhibition – Reversible and Irreversible; competitive and non competitive, (one example of each)	4	David L. Nelson, Michal M. Cox,	White board

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	Numerical problems on above.		Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **F.Y BSc** SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to:

- To understand basic structure and various forms of amino acids.
- To learn the classifications of amino acids.
- To understand physical and chemical properties of amino acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II 2.1 Amino acids and proteins	2.1.1 Amino acid structure - D & L forms of all 20 amino acids	03	• Lehninger, Albert L, Biochemistry, Kalyani Publishers • Nelson, D. L. and Cox, M.M, (2008). Lehninger, Principles of Biochemistry 5th Edition, W. H. Freeman and Company, NY., USA.	• Students were explained about structures by using various images and videos.
	2.1.2 Detailed classification based on polarity, essential and non-essential amino acid	03		• Students were explained about amino acids classification by interactive session.
	2.1.3 Physical properties: zwitter ions, pI of amino acids amino acids as ampholytes, melting point, optical rotation, UV absorption and chemical properties: Chemical reactions of amino acids with Ninhydrin, Sanger's reagent, Edman's reagent and Dansyl chloride	09 Total: 15		• Students were explained about physical and chemical reactions using images and presentation.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **F.Y BSc** SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about reasons for origin of life.
- To understand different theories behind evolution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit I Origin of Life & Formation of cells	1.1 Big bang theory, Theories on the origin of life: Abiogenesis, Heterotroph hypothesis, RNA world, protein world, Miller's experiment, Formation of the first cell, endosymbiont theory	05	●Verma, P.S. and Agarwal V.K.; Cell Biology, Genetics, Molecular biology, Evolution and Ecology ; Publishers : S. Chand and Co.Ltd., (2009)	●Students were explained via an interactive session. ● Diagrams related to theories were shown online.
	1.2 Evolution - Darwinian theory, Modern synthetic theory of evolution and its factors: Gene mutations(recombination), heredity, natural selection and isolation Biological evidences: Fossil record, chemical and anatomical similarities of related life forms, geographic distribution of related species, genetic changes in living organisms over generations and Mechanism of evolution, Gene flow and genetic drift, Hardy-Weinberg principle	10 Total: 15		●Students were explained about amino acids classification via videos. ●They were shown photos of scientists behind these theories. ●Also a project was assigned to them on evolution.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **S.Y BSc** SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about beneficial and harmful organisms for body in detail.
- To understand structure, classification and life cycle of virus.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit I Microbiology in Human Health and Diseases	1.1 Beneficial Microorganism: Lactobacillus, Normal flora of human gut, Probiotics, Yeast, Nitrogen fixing bacteria (Rhizobium and Azotobacter)	03	●Michael J. Pelczar, Jr; E.C.S. Chan; Noel R. Krieg; Microbiology Tata McGraw Hill. ●Roger Y stanier; General Microbiology,Macmillan, 1981	●Students were explained about beneficial and harmful bacteria, structure, classification and life cycle of virus with the help of slides.
	1.2 Harmful microorganisms: 1.2.1 Air borne- *Mycobacterium tuberculae*(Tuberculosis), *Corynebacterium diptheriae*(Diptheria), *Candida sp*., *Haemophilus influenzae* (Influenza), morbillivirus (measles) 1.2.2 Water borne- *Shigella sp.* (Dysentery), *Vibrio cholerae* (Cholera), *Salmonella sp.* (Enteric fever), Hepatitis virus 1.2.3 Food borne- *Staphylococcus aureus*, *Clostridium botulinum* (Botulism) 1.2.4 Soil borne- *Clostridium tetani*	08		
	1.3 Virology- General structure of a typical virus, classification of viruses based on genome (DNA, RNA); symmetry (helical, icosahedral, complex), host (bacteria, plant, animal, insect); Lytic and Lysogenic cycle	04 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS**: S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To explain the process of plant tissue culture and animal tissue culture
- To understand the applications of the same.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit II Cell and Tissue Culture	2.1 Plant Tissue Culture: 2.1.1 History, Introduction or definition (explants, callus, dedifferentiation, re-differentiation) concept of totipotency 2.1.2 Culture techniques; Types of culture (Callus culture, Organ culture, protoplast culture, cell culture) 2.1.3 Applications: secondary metabolites in plant culture, Micropropagation	07	●Jogdand, Advances in Biotechnology; Himalaya Publishing House ●U. Satyanarayan ;Biotechnology, Books & allied (P) Ltd., Kolkata	●Students were explained the procedures with the help of slides.
	2.2 Animal Cell Culture: 2.2.1 History, Introduction to Primary cell culture, Cell lines (Finite and continuous) 2.2.2 Culture techniques used for primary culture, 2.2.3 Stem cell culture, Animal Organ Culture, Whole embryo culture 2.2.4 Applications: hybridoma (monoclonal antibody), production of Vaccines	08 Total:15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS**: S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Gain knowledge about pH, buffers pK, titration curves of acids and will be able to solve problems on above concepts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit I Acids, bases, buffers and ionic equilibria	**1.1** Definition – pH, pK, pKw, isoelectric pH, buffer, buffering capacity	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.2 Derivations: Ionic product of water, Hendersen–Hasselbalch equation,	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board

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	1.3 Relation between pI, pKa_1 and pKa_2 for a neutral, acidic and basic amino acid 1.3.1 Ionization and titration curves of glycine, lysine and aspartic acid; pKa, pHm, and pI values of these amino acids 1.3.2 Sorensen's reaction and formol titration of amino acids	5	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.4 Physiological buffers: Hb - HHb, carbonate-bicarbonate, phosphate and protein	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.5 Numerical on above concepts	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about different types of microscopic techniques
- Understand working and instrumentation of various microscopes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
US BCH 301 UNIT III Microscopy	**3.1** History, Basic principles of microscopy, of light and colour.	03	• Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology (seventh edition) • http://www.microscopyu.com/ • http://www.microscopy.fsu.edu/ • http://www.microscopy-analysis.com/ • http://www.msa.microscopy.org • http://www.openmicroscopy.org	• Youtube videos, Powerpoint presentation, online quiz.
	3.2 Dissection and compound microscope: Construction and parts of a microscope, function of each part, levels of magnification, concept of refractive index and role of oil in magnification	04		
	3.3 Specialized microscopy I; 3.3.1 Differential interference contrast (DIC), 3.3.2 Phase contrast, 3.3.3 Dark Field	04		
	3.4 Specialized Microscopy II; 3.4.1 Simple fluorescence microscopy, 3.4.2 Confocal microscopy 3.4.3 Electron microscopy • Principle, applications and comparative study • Types - SEM and TEM	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the overall organization of the immune system, relationship between innate and adaptive systems and humoral and cell mediated immunity.
- To learn about the cells and organs of immune system in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit I 1.0 Human immune system	1.1 Types of Immunity Innate immunity – Anatomical barriers, physiological barriers, Characteristics of Inflammation, phagocytosis [no mechanism] Adaptive immunity – Active & Passive Humoral & Cell mediated immunity.	06	●Immunology by Goldsby and Kuby	●Students were explained about human immune system with the help of videos and diagrams.
	1.2 Organs of the immune system: Primary lymphoid organs: Thymus, Bone marrow Secondary lymphoid organs: Lymphatic system, Lymph nodes, Spleen, MALT.	04		
	1.3 Cells of the immune system: Lymphocytes – B cells and T cells, Natural killer cells – Mononuclear phagocytes, Granulocytes, Antigen presenting cells. Clonal selection & immunologic memory. Cytokines: biological functions of IL1, tumor necrosis factoralpha, interferon –alpha, IL2, interferon-gamma.	05 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the overall organization of the immune system.
- To learn the structure and function of antibodies.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II 2.0 Antigen-Antibody interactions	2.1 Antigens: Antigenicity, immunogenicity, epitope, factors determining immunogenicity, Haptens. Antibodies: Fine structure of immunoglobulin, Antibodymediated functions, Antibody classes, Monoclonal antibodies (concept, production and applications)	09	• Immunology by Goldsby and Kuby	• Students were explained about antigens and antibodies with the help of videos and diagrams.
	2.2 Antibody diversity: Multigene organization of immunoglobulin genes – Lambda, kappa & heavy chain Light chain DNA – VJ rearrangements Heavy chain DNA - VDJ rearrangements	06 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Understand gene libraries, various gene transfer techniques. They will also study about processes like PCR, DNA fingerprinting and DNA sequencing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper III Unit IV Recombinant DNA Technology II	4.1 Isolation of gene: Gene library and c-DNA library; Southern blot; Chimeric DNA	4	iGenetics by Russel	White board and videos
	4.2 Gene Transfer: Transformation, Transfection, Electroporation, Microinjection, Liposome, Microprojectile (in brief) Selection and screening- Antibiotic and colony hybridization	3	iGenetics by Russel	
	4.3 DNA Amplification by PCR (Steps, Types, Applications)	4	iGenetics by Russel	
	4.4 DNA fingerprinting, DNA sequencing (any one method)	4	iGenetics by Russel	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Gain knowledge about the concept of bioenergetics including electron transport chain and its inhibitors. They will also study about the oxidative phosphorylation process in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-II (Bioenergetics & Oxidative Phosphorylation)	2.1 Bioenergetics: Concept of free energy; Respiratory electron transport chain – Carriers [basic chemistry, redox potentials, orientation on the membrane, sequence}; Q cycle in Complex III; Inhibitors of electron transport – Antimycin A , Amytal, Rotenone, CN, Azide, CO; Barbital Malate-Aspartate shuttle and Glycerol phosphate shuttle	6	1)Lehninger's- Principles of Biochemistry by David L. Nelson 2) Harper's Illustrated Biochemistry by Robert K. Murray 3) Biochemistry by Donald Voet 4) Biochemistry by Jeremy M. Berg 5) Biochemistry (2 Volume Set): The Chemical Reactions of	White board and videos
	2.2 Oxidative phosphorylation –Chemiosmotic hypothesis, Proton motive force; Structure of ATP synthase, Uncoupler- of ETC and Oxidative phosphorylation [DNP]	3		
	2.3 Photosynthesis – Light and dark reactions, Z scheme and electron carriers, photophosphorylation [linear and cyclic]; Calvin cycle – schematic with enzymes; Photorespiration	4		

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	2.4 Bioluminescence. Phenomenon and its biological significance. Applications of Bioluminescence	2	Living Cells by David E. Metzler	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:
- To understand the parts and function of respiratory and excretory system in detail.
- To learn disorders of respiratory and excretory system and their causes in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit II Physiology of respiration and excretion	2.1 Respiratory system	01	• Guyton, Arthur C. and Hall, John E.;Text book of Medical physiology ; Harcourt Brace & Company Asia Pvt. Ltd.	• Students were explained via interactive sessions.
	2.2 Breathing - inspiration and expiration,	01		
	2.3 Composition of air and partial pressure of gases	01		
	2.4 Physical exchange of gases 2.4.1 Transport of oxygen 2.4.2 Transport of carbon dioxide Respiratory disorders – cyanosis, respiratory acidosis and alkalosis	03		• Students were explained about it by structures and reactions in the presentation.
	2.5 Excretion -2.5.1 Structure of the nephron: Bowman's capsule & glomerulus - Structure & function, (ultrafiltration, pressures involved, GFR, regulation of GFR); Renal tubule - structure & function (proximal and distal convoluted tubules and Henle's loop) 2.5.2 Urine formation: Reabsorption / Secretion of glucose, Na+, K+. HCO3 Cl^- and H+ : renal threshold, Excretory disorder: Nephritis	09 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **S.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about different movements of plants.
- To understand process of contraction and relaxation of muscles in mammals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit II Movement and locomotion	2.1 Movement in plants 2.1.1 Movements of Locomotion Spontaneous: Ciliary, Amoeboid, Cyclosis (Rotation, Circulation) Induced: Chemotaxis, Phototaxis, Thermotaxis 2.1.2 Movements of Curvature: Mechanical: hygroscopic movements Vital:i)Spontaneous-movements of growth(nutation, circumutation, Hyponasty, epinasty); movements of variation ii)Induced–Tropic-hapto/geo/hydrotropism; Nastic–seismonasty, Nyctynasty	10	• S.K.Verma and Mohit Verma, Plant physiology, Biochemistry and Biotechnology • Tortora G J, Derrickson B H; Principles of Anatomy and Physiology, Wiley	• Students were explained about different movements in plants with the help of videos.
	2.2 Muscle contraction 2.2.1 Structural organization of a muscle fibre, myofibril 2.2.2 Contraction and Relaxation of Muscles; -mechanisms, Other types of contractions–e.g. twitch, tetanus, Isotonic, Isometric regulation of Muscle contraction	05 Total:15		• Students were explained about movements of muscle with the help of videos.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: S.**Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about different trends in biotechnology and their applications.
- To understand process of biodegradation of various contaminants.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit I Trends in Biotechnology	1.1 Bioremediation: 1.1.1 Introduction to terms – Bioremediation, Biotransformation, Xenobiotics, Recalcitrant xenobiotics, Biomagnification, Factors affecting bioremediation 1.1.2 Types of Bioremediation (Insitu, Exsitu); Types of reactions (Aerobic, anaerobic, sequential) 1.1.3 Applications of Biodegradation - hydrocarbons, (Oil spills) Pesticides and herbicides, Heavy metals (Uranium) contaminated soil and waste land, Ground Water; Genetically Engineered Microbes in bioremediation	08	• U. Satyanarayan ;Biotechnology, Books & allied (P) Ltd., Kolkata	• Students were explained about different trends in biotechnology with the help of videos.
	1.2 Biopesticides: 1.2.1 Introduction; Types of Biological Control (Classical, inoculation, Inundation); 1.2.2 Examples each of Bacterial, Viral, Fungal and Protozoal biopesticide .	04		
	1.3 Biofungicide: Examples and applications	02		
	1.4 Biofertilizers: Examples and applications	01 Total:15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: S**.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand biochemical processes involved in animal and plant studies.
- Learn about different sell and tissue handling and processing techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH 401 UNIT III Approaches to Biochemical investigations	**3.1** Whole animal and plant studies - the advantages and disadvantages of any four model systems for biochemical investigation (e.g. *E.coli*, yeast, *Dictyostelium*, *C. elegans*, Drosophila, *Arabidopsis)*	05	• David L. Nelson, Michael M. Cox, Lehninger; Principles of Biochemistry, W H Freeman & Co.	• Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	3.2 Organ & tissue studies	03		
	3.3 Isolated and cultured tissue and cell techniques: isolation, culture and counting of cells.	03		
	3.4 *Cell Fractionation* 3.4.1 Cell rupture – solid shear, liquid shear, high pressure, ultrasound, osmotic shock, chemical treatment (enzyme, organic solvent), temperature. 3.4.2 Choice of suspension medium (isotonic & hypotonic solution, PBS) and separation methods.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II Unit 3 Pharmacology	3.1. General pharmacology Pharmacodynamics, Physicochemical properties of drugs, Drug absorption: through-GIT, pulmonary, renal, placental and blood-brain barrier Bioavailability and Bioequivalence Drug Distribution, Metabolism and Excretion	05	• Essentials of Pharmacotherapeutics by FSK Brara • Textbook of Medical Biochemistry by M.N. Chatterjea & Ranashinde	•Students were explained with the help of videos and diagrams.
	3.2 Bioassays: Preclinical and clinical evaluation, Therapeutic drug monitoring	05		
	3.3 Pharmacokinetics: LD50, ED50, Half Life, Loading dose, Maintenance dose, Therapeutic dose, Therapeutic Index, Drug plasma concentration, Volume of distribution	05 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II **Unit 4** **Mechanism of Drug Action and Therapeutic**	4.1Mechanism of action of drugs: i. Specific interaction – receptor mediated ii. Partially specific – drugs via enzymes iii. Nonspecific interactions – antimetabolites and antiseptics iv. Through Antibodies v. Placebo effects	05	●Essentials of Pharmacotherapeutics by FSK Brara ● Textbook of Medical Biochemistry by M.N. Chatterjea & Ranashinde	●Students were explained with the help of videos and diagrams.
	4.2 Mechanism of action of drugs: i. Specific interaction – receptor mediated ii. Partially specific – drugs via enzymes iii. Nonspecific interactions – antimetabolites and antiseptics iv. Through Antibodies v. Placebo effects Therapeutic drugs: (Mechanism of action and adverse effects) Anti-inflammatory – non steroid anti-inflammatory NSAID [Ibuprofen], Salicylates – [Aspirins] Cardiovascular drugs- CVS [Ca channel blocker-Amlodipine, and Beta blocker – Proprenolol	10 Total: 15		

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	Antibiotic – Penicillin and Sulphonamide Antacid- Proton pump blocker –Omeprazole			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To be familiar with the MHC; its structure and classes, specific role of each class of MHC and importance in immune response and graft rejection.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II 2.0 Major histocompatibility complex & Transplant immunology	2.1. Major histocompatibility complex: MHC polymorphism & organization of MHC genes- class I & class II; Cellular distribution & structure of class I & II molecules; Self MHC restriction of T cells. Role of antigen presenting cells.	05	●Immunology by Goldsby and Kuby	●Students were explained about MHC, transplantation and autoimmunity with the help of videos and diagrams.
	2.2 Transplant immunology: Types of transplant; immunological basis of allograft rejection	03		
	2.3 Autoimmunity: Organ specific –Myasthenia gravis; Hashimoto's thyroiditis, Insulin dependent diabetes mellitus Systemic – Rheumatoid arthritis, Multiple sclerosis, Systemic lupus erythematosus (immunological basis of these autoimmune diseases)	07 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
The learners will be able to:
Gain knowledge about various antigen-antibody interactions, techniques for detecting them, and concept of complement system in human body.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV Unit I Antigen-Antibody interactions & Complement system	1.1 Antigen- Antibody interactions: 1.1.1 Forces involved, antibody affinity, antibody avidity. 1.1.2 Precipitation reactions – Oudins, Ouchterlony 1.1.3 Agglutination reactions: Blood typing, bacterial agglutination, Passive agglutination, agglutination inhibition, Coomb's test. Immunoelectrophoresis; 1.1.4 Principles of Radioimmunoassay, ELISA, 1.1.5 Immunofluorescence	10	Immunology by Goldsby and Kuby	Presentation/Videos
	1.2 Complement 1.2.1 Components of complement; 1.2.2 Complement activation – Classical & alternate pathway; formation of membrane attack complex. 1.2.3 Biological consequences of complement activation.[in brief]	5	Immunology by Goldsby and Kuby	Presentation/Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the basic concepts of demography and epidemiology of aging and pathophysiology and issues in common diseases of older people.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit IV 4.0 Endocrine Diseases & Ageing	4.1 Endocrine diseases: Diabetes mellitus. Hyper and Hypothyroidism, Cushing's syndrome, Acromegaly	05	●Immunology by Goldsby and Kuby	●Students were explained about diseases with the help of videos and diagrams. ●They were taught about ageing using videos.
	4.2 Diabetes insipidus. 4.2 Ageing: Definition of ageing. Molecular changes during ageing. Theories of Ageing.	07		
	4.3 Alzheimer's disease, Parkinson's diseases	03 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define Air Pollution.
The learner will be able to get an insight on the sources of air pollution.
The learner will be able to understand the impact of air pollution on the environment.

The learners will be able to: understand the problems associated with air pollution and the impact of air pollution on the different aspects of the environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 1 **Title:** Air	**ATMOSPHERE** - Composition and structure of atmosphere - Particles , ions and radicals in the atmosphere - Chemical and photochemical reactions in the atmosphere [reactions of oxygen, ozone, sulphur dioxide , nitrogen oxide and organic compounds]	08	Environmental Chemistry by Anil Kumar De	White Board-Marker
	AIR POLLUTANTS - CO, Oxides of Nitrogen, SO2, hydrocarbons and photochemical smog, Greenhouse gases, suspended particulate matter[sources and effect of] , depletion of ozone	07	Environmental Chemistry by Anil Kumar De	White Board-Marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define water Pollution.
The learner will be able to get an insight on the sources of water pollution.
The learner will be able to understand the impact of water pollution on the environment and human health.

The learners will be able to: understand the problems associated with water pollution and the significance of different water treatment techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 2 **Title:** Water & Water treatment	**WATER HYDROSPHERE** - Characteristics and the water cycle	05	Environmental Chemistry by Anil Kumar De	White Board-Marker
	WATER POLLUTION - Organic pollutants[pesticides, insecticides, detergents, oil spills, toxic organic chemicals] - Inorganic pollutants [heavy metals – Hg, Pb, As, Cd] Thermal pollution of water	05	Environmental Chemistry by Anil Kumar De & A Textbook of Environmental Chemistry and Pollution Control by S.S.Dara	White Board-Marker
	WATER TREATMENT - Criteria for water purity, Water purification [preliminary, - primary, secondary, tertiary- chlorination, ion exchange]	05		White Board-Marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define RCF & RPM, and state the relationship between them.
The learner will be able understand the Beer-Lambert law and derive it.
The learner will be able to know the different types of centrifugation techniques and their applications.
The learners will be able to: understand the working and application of a centrifuge and spectrophotometer.

<table>
<tr><th>PAPER, UNIT, TITLE</th><th>SUBTOPICS</th><th>NO OF LECTURES ALLOTTED</th><th>REFERENCE/S</th><th>TEACHING METHOD/ ICT TOOLS USED</th></tr>
<tr><td rowspan="7">PAPER I
(USBCH601)
Metabolism & analytical techniques-II

Unit 3

Title:
Centrifugation and Spectroscopy</td><td>CENTRIFUGATION
RCF , RPM and derivation of an equation relating the two ; Nomogram ; Sedimentation coefficient</td><td rowspan="7">15</td><td rowspan="3">Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology</td><td rowspan="3">White Board-Marker</td></tr>
<tr><td>Types and applications of centrifuges – Clinical, High speed, Ultra centrifuge - preparative and analytical.</td></tr>
<tr><td>Types of centrifugation and its applications– Differential, Rate zonal, Isopycnic (Centrifugation with and without density gradients)</td></tr>
<tr><td>SPECTROSCOPY
Beer-Lambert law, derivation , limitations, application – estimation of sugar(DNSA) and protein(Biuret); concepts of Lambda max; determination of molar extinction coefficient</td><td rowspan="4">Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology
&
Analytical Chemistry Textbook (S.Y.B.Sc.)
&
epg pathshala</td><td rowspan="4">White Board-Marker</td></tr>
<tr><td>Construction and working of a simple colorimeter and spectrophotometer</td></tr>
<tr><td>Applications of Beer-Lambert law in the estimation of sugar[DNSA] and protein[Biuret]</td></tr>
<tr><td>Numericals based on the above concepts</td></tr>
</table>

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define RCF & RPM, and state the relationship between them.
The learner will be able to understand the Beer-Lambert law and derive it.
The learner will be able to know the different types of centrifugation techniques and their applications.

The learners will be able to: understand the working and application of a centrifuge and spectrophotometer.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 (USBCH604) Immunology & pathophysiology-II Unit 3 **Title:** Virology & AIDS	General Structure of Virus **Structure and mechanism of replication in:** 1. Vaccinia 2. Polio 3. Influenza **AIDS:** Structure and genetics basis of AIDS virus. Replication of AIDS Virus. Symptoms and Causes of AIDS. AIDS Therapy.	15	Fenner And White's Medical Virology & Prescott's Microbiology	White Board-Marker You-tube videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **FY BSc**
SEMESTER**: I** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Understand the concepts of microbiology this includes the historical background, general characteristics of bacteria, microbial taxonomy, structure and function of bacterial cell wall and different staining methods for identification of bacteria.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT 3 MICROBIOLOGY I	Historical background and general characteristics of bacteria	2	Microbiology by Pelczar Michael J	Google Meet/ Presentations/ Videos and Diagrams
	Microbial taxonomy- species and strains, classification based on morpholoy, staining reaction, nutrition and extreme environment	4	Microbiology by Pelczar Michael J	
	Bacterial cell wall- structure and function, components of peptidolycan frame work	4	Microbiology by Pelczar Michael J	
	Introduction to extremophiles	2	Britannica encyclopedia	
	Staining methods and microscopic identification of bacteria	3	Microbiology by Pelczar Michael J And Cliffs notes.com	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **FY BSc**
SEMESTER**: I** MONTH**: JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to: understand the deep knowledge of carbohydrates like their classification, sources, importance and some chemical properties

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper – 1 Unit – III Carbohydrates	Definition, Classification, and functions of carbohydrates (mono, oligo, polysaccharides)	2	Biochemistry -lehninger	White Board
	Monosaccharides ● Classification in terms of aldoses and ketoses ● Occurrence,structures and significance of glucose, fructose, galactose, mannose, and ribos	3	Biochemistry -lehninger	White Board
	Properties: a) Physical - isomerism D & L, optical; epimers : anomers b) Chemical reactions - ● oxidation to produce aldonic. aldaric and uronic acids (with respect to glucose); ● reducing action in boiling alkali, enediol formation (with respect to glucose and fructose) ● Osazone formation (with respect to glucose and fructose ● Orcinol (with respect to ribose)	5	Biochemistry -lehninger	White Board

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	Disaccharides ● Occurrence and structure of maltose , lactose and sucrose ● Formation of glycosidic bonds	2	Biochemistry -lehninger	White Board
	Polysaccharides □ Classification based on function. storage and structure i. Composition: homo & hetero. with examples ii. Storage : starch and glycogen - action of amylase on starch iii. Structural: cellulose, chitin	3	Biochemistry -lehninger	White Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **SY BSc**
SEMESTER**: III** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : To acquire information about the different concepts of Industrial biotechnology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 3 INDUSTRIAL BIOTECHNOLOGY	Basics of fermentation.	4	Biochemistry by Satyanarayan Biotechnology by Satyanarayan	Google Meet , Presentation, Youtube And Online quizzes.
	Industrial production of wine and penicillin.	2		
	Immobilisation of enzymes.	4		
	Biosensors	4		
	Single cell proteins	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____16_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **SY BSc**
SEMESTER**: III** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about Mendalian Genetics with various crossing techniques
- Learn about gene interaction and numerical for the different concepts

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH302 UNIT I Genetics: I	**1.1 History**: Contributions of Mendel, Bateson, Hardy-Weinberg, Garrod, Morgan, Griffith, Beadle and Tatum, Avery, Mac Leod, Mc Carthy, Lederberg, Tatum, Barbara Mclintock, Hershey & Chase, Watson &Crick.	04	• Russell iGenetics Molecular Approach 3rd edition • CliffsAP Biology 3rd edition.	• Google meet, Youtube videos, Powerpoint presentation, online quiz.
	1.2 Mendelian genetics: Mendel's experiments - Monohybrid, Dihybrid crosses, Laws of inheritance	04		
	1.3 Dominance, recessivity, co dominance, incomplete (semi) dominance, lethal genes	04		
	1.4 Gene interaction -Epistasis, types of epistasis, multiple alleles, maternal effects	03		
	1.5 Numerical on above concepts			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Understand simple concepts related to metabolism , metabolic roles played by vitamins and minerals, appreciate the correlation between energy molecules, reducing equivalents and pathways.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT 1 ROLE OF VITAMINS AND MINERALS IN METABOLISM	Minerals as cofactors- Iron, Calcium, Magnesiun, Zinc, Selenium, Molybdenum	3	Lehninger Medical biochemistry by Rana shinde Biochemistry by satyanarayan	Google Meet , Youtube And Online quizzes.
	Water soluble vitamins-thiamin, riboflavin, niacin, pyridoxines	4		
	Biotin, Lipoic acid- chemistry, its co-enzyme and biochemical role	2		
	Fat soluble vitamin- A, D, E and K (INTRODUCTION)	1		
	Vit A- chemistry, wald's cycle, role of rhodopsin, transducin, cGMP Vit D- role in Ca absorption and mobilization Vit E and K- physiological role	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVES:
The learners will be able to : Understand the mechanisms of dna transcription and translation in prokaryotes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 2 TRANSCRIPTION AND TRANSLATION	Transcription in prokaryotes	1	Igenetics by Russel Biochemistry by satyanarayan	Google Meet , Youtube And Online quizzes.
	Mechanism of RNA transcription- initiation, elongation and termination,	4		
	Processing of RNA , concept of split genes, reverse transcription and role of inhibitor- Rifampicin, Actinomycin D	4		
	Translation in prokaryotes- genetic code and mechanism of translation	3		
	Post translational modification of proteins. Inhibitors and mode of action	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Gain knowledge about DNA replication process in prokaryotes, DNA damage and their repair mechanisms.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper III Unit I DNA Replication & Repair	**1.1 Replication of DNA (in prokaryotes) -** Models of DNA replication : Semi-conservative, Dispersive & Conservative; Modes of DNA replication: Theta & rolling circle; Enzymes (pol I, II and III) and accessory proteins; Mechanism of semi-conservative replication;	9	iGenetics by Russel	White board
	1.2 DNA repair: Direct, Photoreactivation,O6 methyl guanine DNA methyl transferase, Excision repair, Mismatch repair, Recombination repair, SOS-error prone repair	6	iGenetics by Russel	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about Cancer and its physiology
- Understand causes of cancer and treatment procedure.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH504 UNIT IV Cancer	4.1 Biology of Cancer	02	• Cell and Molecular Biology by Gerald Karp, 6th edition • Biochemistry by U.Satyanarayana	• Google meet, Youtube videos, Powerpoint presentation, online quiz.
	4.2 Physiology of Cancer cells	02		
	4.3 Causes of cancer Carcinogens: Types (Physical, Chemical and Biological, Environmental Factor); AMES test	03		
	4.4 Oncogenes and activation of oncogenes	02		
	4.5 Genetics of cancer with reference to p53 and Bcl2.	02		
	4.6 Cancer therapy (Chemo – purine, pyrimidine and folate analogs)	03		
	4.7 Cancer and the cell cycle	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Rahab

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Deepa

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. NIKHIL CHANDRAKANT TELI** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.B.Sc.**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to define soil and noise pollution.
The learners will be able to understand the types of soil and noise pollution.
The learner will be able to get an insight on causes and consequences of soil and noise pollution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 3 **Title:** Soil & Noise	**Soil:** Composition of soil, Nitrogen cycle Types of soil pollution – acidification, agrochemical pollution, salinization, and contamination by metalliferous wastes **Noise:** Noise and its measurement Classification of Noise Causes and consequences of Noise pollution	15	Environmental Chemistry by Anil Kumar De The textbook of Environmental studies by Erach Bharucha Fundamental concepts in Environmental studies by Dr. D. D. Mishra	Google Classroom, Google Meet, YouTube Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. NIKHIL CHANDRAKANT TELI** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.B.Sc.**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to differentiate between conventional and non-conventional sources of energy.
The learners will be able to understand the Sources and remedial measures for Industrial pollutants.
The learner will be able to get an insight on Environmental monitoring.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 4 **Title:** Energy, Industrial Pollutants and Environmental Monitoring	**Energy Conventional Sources :** Coal, Coke, Natural gas (CNG), Petroleum products (Petrol, Diesel, Kerosene, Oils, Naphtha) Non-Conventional Sources : Solar , Geothermal, Tidal, Hydroelectric power, Nuclear energy, Biofuels , Natural gas (Synthetic Natural Gas) **Industrial pollutants (Sources and remedial measures):** Polymers and Plastics Asbestos Poly Chlorinated Biphenyls Mining – Acid mine drainage **Environmental monitoring:** Approaches used to monitor the environment-air, water and soil. [Principles and Significance only. Protocols for each factor – not required] Remote Sensing	15	Environmental Chemistry by Anil Kumar De The textbook of Environmental studies by Erach Bharucha Fundamental concepts in Environmental studies by Dr. D. D. Mishra	Google Classroom, Google Meet, YouTube Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to: understand about Cell and their organelles and cell division

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – II The cell- cell wall, cell membrane, cell organelles and cell division	Structural organization of cells • Prokaryotic, Eukaryotic (plant & animal) and yeast cells - a comparative overview	1	Cell and Molecular Biology by Gerald Karp	Power Point, YouTube And Online quizzes.
	Cell wall structure (plant), cell membrane (fluid mosaic model) • Cytoskeleton: microtubules & microfilaments	2	Cell and Molecular Biology by Gerald Karp	
	Cell organelles • Mitochondrion*:* Organization & function of the mitochondria, mitochondrial genome • Chloroplast: Structure and function of the chloroplast. the chloroplast genome, other plastids • Ribosome*: ER*: *Golgi* Structure & Function of Ribosome, ER, Golgi apparatus	9	Cell and Molecular Biology by Gerald Karp	

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	● Peroxisome & Lysosome: Peroxisome function & assembly (in brief) and Lysosome structure and function ● Nucleus: Structure & function of the nucleus, nuclear envelope, nuclear pores, nuclear matrix and Nucleolus			
	Mitosis and Meiosis	3	Cell and Molecular Biology by Gerald Karp	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to: understand about physiology of body fluids

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 2 Blood and Body Fluids	Fluid compartments of the body–ICF and ECF	3	Medical Physiology by Guyton & Hall	Power Point, YouTube And Online quizzes. .
	Blood: Composition, characteristics and function; role of plasma proteins, Starling's hypothesis; blood clotting and factors involved	5	Medical Physiology by Guyton & Hall	
	Bile: Composition, characteristics and function; storage	3	Medical Physiology by Guyton & Hall	
	Urine: Composition–normal and abnormal constituents; formation of urine	2	Medical Physiology by Guyton & Hall	
	Lymph: Composition, Formation and Circulation	2	Medical Physiology by Guyton & Hall	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : understand and gain knowledge about transportation system in plant and mammals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 3 Biological transport mechanisms	**Transport in plants**: Role of xylem and phloem	1	S.K. Verma and Mohit Verma; Plant physiology, Biochemistry and Biotechnology	Power Point, YouTube And Online quizzes.
	Transport in blood: Transport of gases CO2 and O2, Role of hemoglobin, O2 dissociation curves, Bohr effect Chloride shift	5	Medical Physiology by Guyton & Hall	
	Transport of Metabolites: transport of lipids – lipoproteins and their types, role of plasma protein, albumin in transport of metabolites and drugs	3	Medical Physiology by Guyton & Hall	
	Transport of Ions: Fe -Ferritin and transferrin and Calcium	2	Medical Physiology by Guyton & Hall	
	Transport across cell membranes ● Channel proteins and Carrier proteins ● Passive transport (simple and facilitated diffusion) with suitable examples; concept of symport, antiport,	4	S.K. Verma and Mohit Verma; Plant physiology, Biochemistry	

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	uniport, Endocytosis and Exocytosis – with one example each ● Active transport: primary–Na+&K+ pump, secondary Glucose-amino acid transport, types of glucose transporters (GLUT 1 to GLUT 4), aquaporins, ion channel inhibitors like gramicidin and valinomycin		and Biotechnology	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Study about the concepts and processes of diffusion , osmosis, colloids , viscocity and surface tension.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Physicochemical principles	**2.1** Diffusion and osmosis 2.1.1 Ways of expressing solute concentration - mole, molal, normal, percent, activity & ionic strength. 2.1.2 Diffusion & diffusion coefficient and factors affecting diffusion of solute in solution 2.1.3 Osmosis - Vant Hoff's law of osmotic pressure law & mathematical expression (no derivation), mechanism of osmosis, role of osmosis in physiology. 2.1.4 Renal dialysis: Principles and process	7	Biophysical Chemistry, Upadhyay	White board
	2.2 Colloids and viscosity 2.2.1 Colloidal state in relation to surface forces, surface area, electrical charge, precipitation and flocculation. 2.2.2 Surface tension and its measurement, factors affecting surface tension Eg. Role of bile in digestion 2.2.3 Viscosity - definition, measurement; Donnan membrane equilibrium, relation between Donnan equilibrium and osmotic pressure.	8	Biophysical Chemistry, Upadhyay	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : comprehend the catabolism and anabolism of carbohydrates and the disorders associate with these biomolecules.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 1 UNIT – III Carbohydrate metabolism	Catabolism – Cellular location, sequence of reactions, labelling of carbon atoms, and energetics of: Glycolysis (aerobic and anaerobic); Oxidation of pyruvate, Kreb cycle; Glyoxylate pathway; Glycogenolysis – [schematic – no structures, but with enzymes and coenzymes]	7	Biochemistry -lehninger	Power point
	Anabolism – HMP shunt (Cellular location, sequence of reactions, multifunctional nature); Gluconeogenesis,Glycogenesis –[schematic – no structures, but with enzymes and coenzymes]	5	Biochemistry -lehninger	Power point
	Disorders of carbohydrate metabolism: - Galactosemia, Fructosemia, - Lactose intolerance	3	Biochemistry -lehninger	Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : understand the basic tools required and know the techniques of recombinant DNA technology, their applications and the use of the technology for the benefit of society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 3 UNIT – III Recombinant DNA Technology I	Introduction to RDT	1	Biotechnology by U.Satyanarayana	Power Point, YouTube And Online quizzes.
	Tools for RDT ● Enzymes- Restriction endonucleases, ligases, terminal transferases, reverse transcriptase: ● Cloning and Expression Vectors- Plasmid, pBR 322, PUC-19, Bacteriophage – Lambda phage; Cosmid; Artificial Chromosomes (BAC and YAC); Shuttle vectors; ● Probes- DNA probes	9	Biotechnology by U.Satyanarayana	
	Applications of RDT- Agriculture (Bt Cotton); Medicine (Insulin); GM food	5	Biotechnology by U.Satyanarayana	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about metabolic, blood related and cardiovascular disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV UNIT III Pathophysiology of metabolic and other disorders	**3.1 Metabolic disorder** 3.1.1 Inborn error: With respect to Etiology and Clinical manifestations 3.1.2 Carbohydrate Metabolism: Glycogen storage disease Type I & III. 3.1.3 Amino acid Metabolism: Albinism, Phenylketonuria, Maple syrup urine disease, Alkaptonuria 3.1.4 Lipid Metabolism: Tay Sach’s disease, Niemann–Pick diseases, Fabry's disease	06	• Harper's Illustrated Biochemistry by Robert K. Murray • Lehninger’s- Principles of Biochemistry by David L. Nelson	• Youtube videos, Powerpoint presentation, online quiz.
	3.2 Blood related diseases: 3.2.1 Iron deficiency anemia 3.2.2 Sickle cell anemia 3.2.3 Thalassemia 3.2.4 Pernicious anemia 3.2.5 Hemophilia A and B	05		
	3.3 Cardio Vascular System and related diseases: 3.3.1 Hypertension, Arteriosclerosis and Atherosclerosis	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : understand in detail about fundamental structural and functional properties of the digestive system along with some disorders related to the digestive system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 2 UNIT – I Physiology of digestion and absorption	Parts and Functions of gastrointestinal tract (GIT)	2	Medical Physiology – GUYTON & HALL	Power Point, YouTube And Online quizzes.
	Organs and Glands associated with GIT Secretions and Juices of GIT (Saliva, Gastric juice, Intestinal juice, pancreatic and Bile juice)	8	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of carbohydrates	1	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of Lipid	1	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of Proteins	1	Medical Physiology –	

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			GUYTON & HALL	
	Disorders - Peptic ulcer, Lactose Intolerance	2	Medical Physiology – GUYTON & HALL	Power Point, YouTube And Online quizzes..

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:

The learners will be able to: understand about biochemical study of Lipids like definition, complex structure, importance, classification and some chemical properties.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 1 UNIT – 1 LIPIDS	Definition, classification (Bloor's) and functions of Lipids	2	Fundamental of Biochemistry by Jain & Jain	White board, Power Point, YouTube And Online quizzes.
	Fatty' acids and Triacylglycerol	1	Fundamental of Biochemistry by Jain & Jain	
	Classification & Chemistry, ● Saturated fatty acids - classification of C2 to C20: even carbon: Common and IUPAC names. Unsaturated fatty acids MUFA, PUFA (2.3.4 double bonds) Omega - 3.6.9 fatty acids. Triacylglycerol - simple and mixed - names and structure ● Chemical Reactions of fats Saponification, Iodination, Ozonolysis, Auto-oxidation,	6	Fundamental of Biochemistry by Jain & Jain	

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	Action of heat on glycerol and choline, Rancidity Definition & significance - Acid number, Saponification number, Iodine number, Reichert - Meissel number			
	Compound Lipids ● Functions of glycerophospholipids (PE.PC.PL) Phosphosphingolipids (ceramide, sphingomyelin), Glycolipids /Cerebrosides (gluco & galactocerebrosides)	4	Fundamental of Biochemistry by Jain & Jain	
	Steroids Cholesterol structure and biochemical significance.	2	Fundamental of Biochemistry by Jain & Jain	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S: The learners will be able to **:** understand the basic concept of Eukaryotic & Prokaryotic genome, their organization up-to chromosome & Recombination of genome in Prokaryotes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 1 Genetics : II	**Genome organization**	1	Biotechnology - U. Satyanarayan	Power Point, YouTube And Online quizzes.
	Prokaryotic Genome: Nucleoid structure	1	Biotechnology - U. Satyanarayan	
	Eukaryotic chromosomes: Packaging of DNA(upto Solenoid structure), DNA supercoiling, Topoisomerase, Chromatin structure -Euchromatin, Heterochromatin, structure of condensed chromatin, Centromere, kinetochore, telomere, Comparison of chromosomal structure in prokaryotes and Eukaryotes	9	Biotechnology - U. Satyanarayan	
	Recombination in prokaryotes	1	Biotechnology - U. Satyanarayan	
	Transformation: Transformation in *S. pneumonia* Transduction: General features with one example	1	Biotechnology - U. Satyanarayan	
	Conjugation: Mechanism F+, F- and Hfr strain	1	Biotechnology - U. Satyanarayan	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Learn about various types of plant and animal hormones, their structures mechanisms and effects.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Plant growth regulators and endocrinology	**2.1** Plant growth regulators- Structure and function of- auxins, gibberellins, cytokinins, ethylene and abscisic acid.	3	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board
	2.2 Definition of hormones, hormone receptor, endocrine & exocrine glands	2	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board
	2.3 Classification of hormones on the basis of: 2.3.1 Distance of target tissue - autocrine, paracrine, endocrine. Hierarchal organization of the mammalian endocrine 15 lectures system	4	Hall John E ; Guyton : Textbook of Medical	White board

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	2.3.2 Chemistry - One example for each sub class.		Physiology Elsevier publishers	
	2.4 Chemistry & physiological role of thyroxine, oxytocin & vasopressin, Physiological role of glucocorticoids, FSH, LH, Estrogen, Progesterone (Reproductive cycle) Mode of action of steroid hormones and epinephrine. (amplification cascade Only till the level of protein kinase A) G protein not to be covered.	6	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:
- Understand the nervous system and the parts of the nervous system.
- Learn how all parts of the nervous system are involved in a neurotransmission.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH402 UNIT III Neurophysiology	**3.1 Nervous System Classification**: CNS,PNS; Components: Neurons (3types) and Neuroglia(6types)–structure and function, Axonal transport	05	• Metzler David E. Biochemistry, The chemical reactions of living cells, Volume II. Elsevier publications.	• Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	3.2 Nerve impulse transmission: Resting Membrane Potential, ion channels [voltage and ligand gated], Action Potential (depolarization, polarization and refraction period), propagation of action potential (salutatory & continuous conduction)	03		
	3.3 Synaptic transmission: Physiological anatomy of a synapse;– Electrical & Chemical synapses, Excitatory & inhibitory postsynaptic potentials, Agonists & Antagonists, inactivation of Neurotransmitter	03		
	3.4 Neurotransmitters: Structure and function of acetylcholine, catecholamines, GABA, glutamate, glycine	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to: understand breakdown and synthesis of fatty acid appreciate experiments carried out by scientists to enable understanding the pathways and cycles of lipid metabolism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 1 UNIT – I Lipid metabolism	Catabolism - Knoop's experiment; Beta oxidation of even carbon saturated fatty acids (C4 to C20) Energetics of fatty acid oxidation. Beta oxidation of odd carbon chain fatty acid	7	Biochemistry -lehninger	Power Point, YouTube And Online quizzes.
	Anabolism – FAS complex; Fatty acid biosynthesis (palmitic acid); Ketone body formation, utilization, and the physiological significance of Ketone bodies in Diabetes mellitus, Starvation, Pregnancy and Alcoholism.	8	Biochemistry -lehninger	Power Point, YouTube And Online quizzes.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S
The learners will be able to: about proximate principles, nutritional status and balanced diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – I Nutrition	Principles of nutrition	2	Biochemistry by U.Satyanarayana	Power Point, YouTube And Online quizzes.
	Nutrients [Proximate principles, vitamins and minerals (macro And micro- role of Ca, Mg, Na, K and Fe, Zn)], dietary fibre.	3	Biochemistry by U.Satyanarayana	
	Nutritional status [malnutrition (protein energy and protein calorie) and over nutrition]	2	Biochemistry by U.Satyanarayana	
	Balanced diet	1	Biochemistry by U.Satyanarayana	
	Energy Assessment - RQ, BMR;	2	Biochemistry by U.Satyanarayana	
	Anthropometry – BMI, Waist:hip ratio;	2	Biochemistry by U.Satyanarayana	
	Protein quality indices: Chemical score of amino acids, Protein Deficiency Corrected Amino Acid Score, Net Protein utilization	3	Biochemistry by U.Satyanarayana	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Learn about reactions of amino acids and protein metabolism, hormones and signal transduction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Amino acid and protein metabolism & Endocrinology	2.1 Amino acid and protein metabolism – 2.1.1 Reactions of amino acids – Transamination [GOT/GPT and mechanism of transamination] ; Decarboxylation [His, Trp, Glu, and mechanism of decarboxylation] , Deamination [oxidative – NAD(P) linked dehydrogenases and D & L - Amino acid oxidases, Non oxidative – Asp, Cys, Ser] 2.1.2 Urea cycle – Cellular location, sequence of reactions, Labeling of N atom, transport of NH_3	8	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	2.2 **Endocrinology** 2.2.1 Chemistry, synthesis , secretion and physiological effects of Thyroxine and Insulin [synthesis from preproinsulin], Diabetes mellitus , Hypothyroidism [cretinism and myxedema], Hyperthyroidism [goiter – simple & toxic] Physiological role of Glucocorticoids, Oxytocin and ADH 2.2.2 Mode of action of steroid hormones, Effect of epinephrine on glycogen synthesis and breakdown [amplification cascade with G proteins, cAMP, adenylate cyclase, kinases]	7	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about electrophoretic techniques and their different procedures.
- Understand about radioactivity and how it is used in biological experiments.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH601 UNIT IV Electrophoresis & Radioactivity	4.1 **Electrophoresis** 4.1.1 Principle: Factors affecting the rate of migration of sample in an electric field 4.1.2 Moving boundary and Zone electrophoresis; Components of electrophoresis unit/apparatus 4.1.3 Various support media - paper, cellulose acetate, agar, agarose and polyacrylamide 4.1.4Technique of electrophoresis with staining/visualization method • agarose electrophoresis for separation of DNA • Native PAGE for separation of proteins • SDS PAGE for molecular weight determination; • Discontinuous electrophoresis • Other applications of electrophoresis: blotting techniques Southern, Northern, and Western 4.1.5 Isoelectric Focusing of protein	11	• Principals and Techiniques of Biochemistry and Molecular Biology 7th Ed Wilson Walker • Analytical Biochemistry by David Holme	• Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	4.2 **Radioactivity-** Isotopes, Radioactive decay; Decay constant; Half-life; Measurement of radioactivity (principle)	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **FY BSc** SEMESTER:**II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:The learners will be able to: Understand microbial growth,media required for growth, sterilization and disinfection techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II **Unit III** **Microbiology II**	**3.1** Microbial Growth - Growth Curve, Mathematical expression, Synchronous growth, Generation time	4	1))Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd. 2)Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition.	Presentation/Videos

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	3.2 Culture media (N, C, Special requirements), Natural and Synthetic media	3	1)Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos
	3.3 Sterilization and Disinfection techniques	3	1)Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos

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	3.4 Physical Agent of sterilization - Temperature- Pressure (Hot Air Oven, Autoclave), Radiations (UV, Gamma) (examples with mechanism) Chemical agents of sterilization - Alcohol, Halogens, Formaldehyde	5	Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **SY BSc** SEMESTER:**IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : understand basic concepts of Pharmacology and be able to understand basic information about drugs like their sources , formulation types, administration route, their pharmacokinetics effect and their novel delivery system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 3 UNIT – 2 Introduction of Pharmacology	Scope of pharmacology	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Sources, Classification, Chemical & physical properties of drug and Nomenclature of drugs	4	Essentials of Pharmacology - F. S. K Brar	White Board
	Dosage forms and routes of drug administration; Factors affecting dosage and drug delivery	3	Essentials of Pharmacology - F. S. K Brar	White Board
	Pharmacokinetics: LD 50, ED 50 Half Life, Loading dose, Maintenance dose (Explanation of terms only);Therapeutic index	3	Essentials of Pharmacology - F. S. K Brar	White Board

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	Novel Drug delivery system (NDDS)	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Transdermal and oral modes	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Liposomes and nanoparticles	2	Essentials of Pharmacology - F. S. K Brar	White Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **T.Y BSc** SEMESTER:**VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to:

- Learn about different tools used in bioinformatics and understand genome, proteome and nucleotide sequence analysis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH603 UNIT II Bioinformatics	2.1 **Bioinformatics:** Definition, Aims and History of Bioinformatics Applications of Bioinformatics in – Sequence analysis, Molecular modeling and drug designing, Phylogeny/evolution, Ecology & population studies, Medical informatics and agriculture. Introduction to Genomics and Proteomics Databases- Definition & types – Public domain database, Sequence database, Structural database, Motif database, Genome database, Proteome database, Annotated sequence database. Full form & function in brief of - GenBank, EMBL, PIR, SWISS PROT, PDB, GDB. Sequence analysis Tools - Explain the following terms in brief-BLAST, FASTA, L-ALIGN, CLUSTAL- X & W, RASMOL, Software for protein sequencing - PROSPECT, AMMP,COPIA	15	• Principles and Techniques of Biochemistry and Molecular Biology, 4th edition.	Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.

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	(Explanation of the terms in brief) Micro-array analysis-concept and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Deepa Verma — DEPARTMENT: Biochemistry — CLASS: T.Y.B.Sc. Biochemistry
SEMESTER: **V** — MONTH: June-October — ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- To differentiate about different chromatographic techniques
- To understand chromatography as a separation technique.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit – IV	Chromatography: Principle, Theoretical plates	02	• Principles of Instrumental Analysis - by Douglas A. Skoog • An Introduction to Practical Biochemistry- by David Plummer	Lectures on Google Meet, PowerPoint, Youtube videos, Pdfs, Upload of learning material on Google Classroom
	Technique and Applications of the following kinds of chromatography : Partition chromatography (Paper)	03		
	Adsorption Chromatography (TLC and column)	04		
	Ion exchange chromatography and Gel filtration	01		
	Principle and applications of GLC, HPLC, HPTLC, Affinity chromatography,	03		
	Numerical problems based on above concept	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Deepa Verma | DEPARTMENT: Biochemistry | CLASS: T.Y.B.Sc. Biochemistry

SEMESTER: **VI** | MONTH: November-April | ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- The learner will learn the concept of diet management, nutrition at various stages of life and diseases related to diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit – II	Concepts like Balanced diet, Meal planning.	03	• Lehninger's- Principles of Biochemistry by David L. Nelson	Lectures on Google Meet, PowerPoint, Youtube videos, Pdfs, Upload of learning material on Google Classroom
	Nutrition during pregnancy, lactation, infancy, toddlerhood, preschool stage, school going children, and adolescence, adulthood and geriatric	07		
	Dietary Management in :- Obesity, Diabetes Mellitus, Hypertension, Peptic ulcer , Obstructive Jaundice	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI)**

SEMESTER: I **SUB : FC** MONTH: **AUGUST TO NOVEMBER** ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE DIVERSE COMPOSITION OF THE INDIAN SOCIETY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE I **UNIT : I** OVERVIEW OF THE INDIAN SOCIETY	Understand the Multicultural diversity of Indian Society	01	**FOUNDATION COURSE I** Payabhut Abhyas-Prof	*1.Chalk Duster*
	Demographic Composition Population based on Religion, Caste & Gender	01		
	Concept of Linguistic Diversity	01		

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	Understand Regional Variations – Rural, Urban & Tribal	01	S.S.Liman,Prof S.J.Vaghmare	
	Understanding the Concept of Diversity as a Difference	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05 Lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :II CONCEPT OF DISPARITY I	Concept of Disparity of Indian ,Stratifications And Inequality-Caste, Class & Estate System	03		*1.Chalk Duster*

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	Gender Disparities Especially problems related to Women	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	
	Disparities faced by People with Disabilities - Physical & Mental	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :III CONCEPT OF DISPARITY II	Examine inequalities Disparities due to Caste System and inter Group Conflicts	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Disparities based on inter group conflicts such as communalism	03		
	Causes & Effects of Conflicts arising out of Regionalism & Linguism	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI/ENGLISH)**

SEMESTER: II **SUB : FC** MONTH: J**ANUARY TO MARCH** ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE DIVERSE COMPOSITION OF THE INDIAN SOCIETY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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UNIT : 1 GLOBALIZATION AND INDIAN SOCIETY	concepts of liberalization,privatization and globalization ,	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	growth of information technology and communication and its impact ,impact of globalization on industry	03		
	changes in agrarian sector due to globalization,reise in corporate farming	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :2 HUMAN RIGHTS	concept of Human Rights :origin and evolution of the concept	04	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	The Universal Declaration of Human Rights	03		
	Human Rights constituency with special references to fundamental Rights stated in the constitution	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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UNIT :3 ECOLOGY	Importance of environmental Studies in the current development context	03	**FOUNDATION COURSE I** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Concept of Environment ,Ecology and connection	03		
	connection to quality of human life	02		
	Degradation - causes and impact on human life	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURES

TEACHING PLAN (UNIT Plan)

NAME OF THE STAFF: MS. Kavita yogesh Patil MONTH: **JULY TO NOVEMBER** DEPARTMENT: History

SUB : MARATHI CLASS: F.Y.B.A. (MAR) comp. SEMESTER: I ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MARATHI LEKHANATIL VRUTTALEKHAN ,VRUTTANTLEKHAN KAUSHYALA,.KATHA PRAKAR VIDYARTHYANA MAHITI KARUN DENE .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MAR(COMP.) Ghatak -2 Vyavaharik Marathi Ghatak-1 KATHARANG	1)vrutta lekhan, vruttantlekhan 2)Give him a chance 3)Rohit 4)pakumavshi 5)bhuk 6) harih hasu	30	Valimbe,Mo.Ra.'Sugam Marathi Vyakran va Lekhan', Nitin Prakashan 1)M.na.advant:pradakshina khand pahila 2)joshi sudha:katha:sankalpana ani samiksha, mauje Prakashan	*1.Chalk Duster*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil DEPARTMENT: History (ARTS)

CLASS: F.Y.B.A. (MAR) comp. SEMESTER: I MONTH: **JULY TO NOVEMBER** ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: DALIT KATHETIL BADLATYA PRAVHACHA ABHYAS KARANE.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MAR(COMP.) Ghatak -1 KATHARANG	1)ARJ LEKHAN 2)Bhashanter 3)GHUSMAT 4)CHURADA 5)kemikali boy ani saringa	30	Suravade manohar:1980 nantarchi gramin katha balivansh prakashan ,nanded	*1.Chalk Duster*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil DEPARTMENT: History

CLASS: F.Y.B.A. (MAR) SEMESTER: II MONTH: **JANUARY TO MARCH** ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO:MANOVAIDNANIK KATHA,AADIVASI KATHA,SHAHRI KATHA CHA ABBHYAS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MAR(COMP.) Ghatak -1/2 KAVYARANG	1) Itivruttlehan 2) jahirat lekhan 3) janiv 4) bapuji uddeshun 5) sarv mothya kavina 6) aanghol n kelela paus 7) KAVYPRAKARNCHA AHYAS	04 04 02 02 02 02 04	KAVYARANG :sampadak dr.nitin arekar ,dr.nanasaheb yadav,dr.jagdish rane	Group Discussion, CHALK DUSTER

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

MONTH: **JANUARY TO FEBRUARY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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		ALLOTTED		
MAR(COMP.) Ghatak -1/2 KAVYARANG	1) UTARYAVARIL PRASHN 2) SARANSH LEHAN 3) NIBANDH LEKKHAN	04 04 04	kavyarang :sampadak dr.nitinarekar ,dr.nanasahbya dav,dr.jagdish rane	Group Discussion, CHALK DUSTER
	1) TICH BAI HOT JAN 2) BAIPANATUN BAHER HOT JAN	20		
	3) TAS GHARACH LAPEER MI 4) VIDNYAN VANDANA 5)GANDHI JAYANTI 6)RANABABHAL 7)PASHU 8)KRANTISATHI KAVITA LIHNARYANO 9)TE BAGHA TYA TITHE			

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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	10)ANDUKINE ANUS MARTO HI AND SHRADDHA AAHE HI DOCTOR 11)ZULVE 12)SIMON THE 13) SHODH 14)GHEUN CHAL MLA 15)SHETAJURA CHYA PORI			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20 Lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita Yogesh Patil DEPARTMENT: HISTORY **Month: JULY TO NOVEMBER**

ACADEMIC YEAR: 2022-2023

F.Y.B.A. (Hindi(comp) SEMESTER: I CLASS: **FYBA(ENGLISH)**

LEARNINBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, SHUDHALEKHAN KE NIYAM

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Hindi(COMP.) *kavya -sarita *katha -darpan	aadhunik hindi kavita ki vikas yatra 1)bharat mata ka mandir-maithalisharan gupta 2)sab jivan bita jata hai-jayshankar prasad 3)bhar dete ho-surkant tripathi 4)manovriti-premchand 5)vrat-bhang-jaishankar prasad	12	hindi kahani ka vikas-katha darpan satho hindi kahani-katha darpan	Group Discussion, CHALK DUSTER

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Kavita yogesh Patil **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) **SEMESTER: I** **MONTH: NOVEMBER TO DECEMBER ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:KAVITA AUR KAHANIYA KA ADHYAN, SANGYA,SARVANAM, VISHESHAN

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1)pralay ki ratri -suderashan 2)enam-jainendra kumar 3)mahadan-yashpal 4)prayaschit-bhagwati charan verma		hindi kahani ka vikas	Group Discussion,

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kathak darpan kavya sarita	5)these-phanishwar nath renu 6)yah mandir ka deep-mahadevi verma 7)shakti aur kshma-ramdhari sinh		aadhunik kavita ki vikas yatra	CHALK DUSTER

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:MS. KAVITA YOGESH PATIL **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) compulsory **SEMESTER: II** **MONTH: JANUARY TO FEBRUARY** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, APATHIT GADHYNSH,anulekhan

TITLE	SUBTOPIC	**NO.OF LECTURES ALLOTTED**	REFERENCES	**METHOD/ ICT TOOLS USEDHi**
kathak darpan	1)pushp ki abhilasha -makhanlal chaturvedi 2)ve aur tum -nagarjun		hindi kahani ka vikas	Group Discussion,

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kavya sarita	3)rith ki haddi-harivansh rai bachchan 4) aaj ka dainik-bhavani prasad mishra vyakaran--naam,sarvanam,ling,vachan		aadhunik hindi kavita ki vikas yatra	CHALK DUSTER Group Discussion,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KAVITA YOGESH PATIL** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(MARATHI/ ENGLISH)**

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO GET A BRIEF OVERVIEW OF THE IMPORTANT ASPECTS OF THE GLOBAL SOCIETY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE III **UNIT : I** HUMAN RIGHTS VIOLATIONS & REDRESSAL	Scheduled Castes – Constitutional & Legal Rights, Violations And Redressal Mechanisms	02	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Scheduled Tribes– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Women– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Children– Constitutional & Legal Rights, Violations And Redressal Mechanisms	02		
	Disabilities Minorities, Elderly Persons– Constitutional & Legal Rights, Violations And Redressal Mechanisms	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :II DEALING WITH ENVIRONMENTAL CONCERNS	Concept Of Disasters And General Effects Of Disasters On Human Life	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	Local Case Studies Of Environmental Disasters	02		
	Dealing With Disasters: Prevention, Mitigation, Disaster Preparedness	03		
	Human Rights Issues And Violations In Addressing Disasters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :III SCIENCE & TECHNOLOGY I	Development Of Science: Ancient Culture, Classical Era, Middle Ages, Renaissance, Age Of Enlightenment	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghma	*1.Chalk Duster*
	Nature Of Science : Principles, Characteristics, Theories & Practical's	02		
	Science & Superstition: Exploding Myths, Blind Beliefs, Prejudices. Building Scientific Temper	03		
	Science In Everyday Life : Science & Technology Inter Relation And Distinction	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV: SOFT SKILLS FOR INTERPERSONAL COMMUNICATION	PART A: ● Verbal And Non Verbal Communication ● Listening Skills ● Barriers In Effective Communication ● Importance Of Body Language	03	**FOUNDATION COURSE III** Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare	*1.Chalk Duster*
	PART B: ● Formal & Informal Communication ● Writing Skills ● Group Discussions ● Interviews ● Presentations:	04		
	PART C : ● Leadership Skills ● Self Improvement Skills ● Team Building	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF:MS. KAVITA YOGESH PATIL **DEPARTMENT: HISTORY**

CLASS: F.Y.B.A. (HINDI) compulsory **SEMESTER: I** **MONTH: NOVEMBER TO DECEMBER** **ACADEMIC YEAR: 2020-2021**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KAVITA AUR KAHANIYA KA ADHYAN, APATHIT GADHYNSH,PATRA LEKHAN

TITLE		ALLOTTED		METHOD/ ICT TOOLS USEDHi
Hindi compulsory 1)Kavya Kunj 2)Shreshtha kahaniya bhag-1	1)DIYA JALANA kAB MANA HAI- HARIVANSH BACHHAN 2)JALAO DIYE PAR RAHE DHYAN ITNA-GOPALDAS 3)SADACHAR KA TABIJ-HARISHANKAR PARSAI 4) DIPTI COLLECTOR-AMARKANT 5) APNA GAV-MOHANDAS NAIMISHARANYA BHASHA dakshata- 1)apathit gadyansh 2)patra lekhan	12	1)Kavyakunj sampadan:hindi adhyan mandal, Mumbai vishwavidyalaya:Prakashan rajkamal, new Delhi 2)SHRESHTHA KAHANIYAN BHAG-1 SAMPADAN:HINDI ADHYAN MANDAL, MUMBAI VISHVAVIDYALAYA, PRAKASHAN:VANI,NEW DELHI	Group Discussion,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Nilima Bhagwat **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** JUNE-DEC **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Budget of The Government of India
- To understand Components of Public Expenditure
- To understand Appraisal of FRBM Act
- To understandFourteenth Finance Commission Recommendations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit IV Indian Public Finance	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts	03	1)Sury M.M., (1990), Government Budgeting in India,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	(Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations		Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth Finance Commission,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT   DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A.   **SEMESTER:** III   **MONTH:**JUNE-DEC   **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To understand economic planning in India
- To understand recent structural changes in economy
- To understand Demonetization, Fiscal policies.
  To understand the upcoming policy of Universal Basic Income

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: PUBLIC FINANCE Module 1: INTRODUCTION	Meaning and Scope of Public Finance –Public Finance Versus Private Finance - Market Failure – Public Goods and Private Goods – Externalities - Efficiency versus Equity – Principles of Sound Finance and Functional Finance – Allocation, Distribution, Stabilisation and Growth functions of the Government	12	J. Hindriks, G. Myles, Intermediate Public Economics, MIT Press, 2006	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

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NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** JULY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To understand recent structural changes in economy
- To understand the economics of government expenditure and taxation.
- To use economic analysis to predict and verify the effects of government intervention on behaviour of individuals, households, and firms.
- To discuss the implications of policy for efficiency and equity.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IVPUBLIC FINANCE Module 2: Fiscal policy: Budget and taxation	Dalton’s and Musgrave versions of the Law of Maximum Social Advantage - Role of government in a modern economy – Types of Public Budget - Structure of Public Budget - Role of taxation - Merits and Demerits of Direct and Indirect Tax Policy - Features of Good Tax System - Concept of Impact, Incidence and Shifting of Taxation–Elasticity and determination of tax burden	12	KaushikBasu and Maertens (ed) The New Oxford Companion to Economics in India, Oxford University Press, 2013	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:**AUGUST **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in the Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Public Finance Module 3: FISCAL POLICY: PUBLIC EXPENDITURE AND DEBT				
	Canons of Public Expenditure – Classification of Public Expenditure - Wagner's Law of Public Expenditure – Public Expenditure as an instrument of Fiscal Policy; Meaning and Types of Public Debt – Burden of Public Debt - Principles of Public Debt Management – Concepts of Deficits	12	Sury M.M., Government Budgeting in India	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:**AUGUST **ACADEMIC YEAR:** 2022-23

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
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- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Public Finance **Unit IV Indian Public Finance**	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations	12	Sury M.M., Government Budgeting in India	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**DECEMBER **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module- I: Introduction	Trends in India’s National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India	12	Ashwini Mahajan, Gaurav Datt, (2018) ‘Indian Economy’, S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

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NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**JANUARY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module - II: Agricultural Sector	Role of Agriculture in Economic Development; Causes of Low Productivity; Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India	12	Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

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NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**FEBRUARY **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module -III: Industrial Sector	Infrastructure for Industrial Development; Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development		Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	
		12		GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:**MARCH **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand nature of Indian economy
- To analyze public goods, externalities, and information asymmetries; market failures resulting
- From these conditions and policies to address those market failures; taxes; and expenditures.
- To analyze policy applications including welfare assistance, education, healthcare spending, and tax policies such as income taxes and consumption taxes.
- To critically analyze fiscal policies and its implication in Indian Economy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV: Module -IV: Service Sector	Role of Service Sector in Indian Economy; Growth and Performance of Healthcare; Performance of Trade and Tourism, Information Technology and IT - Enabled Services; Research and Development Services With Reference to Education and Skill Development in Employment Generation in India; Performance of Service Sector during XIIth Five Year Plan	12	Ashwini Mahajan, Gaurav Datt, (2018) 'Indian Economy', S. Chand and Company, New Delhi.	GOOGLE CLASSROOM, PPT.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND BASIC PRINCIPLES OF MICROECONOMIC THEORY.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module - I: Introduction to Microeconomics	Module - I: Introduction to Microeconomics : Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	2	N.Gregory Mankiw, (2015), "Principles of Microeconomics" 7th edition- Cengage Learning	Group Discussion, PPT, QUIZ

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE CONCEPT OF CONSUMER'S BEHAVIOUR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO I: Microeconomics – I Module IV: Consumer's Behavior	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	2	M.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd	Group Discussion, PPT, QUIZ .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER: V** **MONTH: JULY -DEC** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 1: Meaning of	Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen’s Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.	12	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson	PPTs, Group Discussion, Quizzes

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Economic Growth and Development			**Education, 2003.**	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Various Theories of Growth and Development

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 2: Theories of Economic Development	Rostow's Stages of Growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis – Harrod – Domar Growth Model – Lewis Model of Unlimited Supply of Labour – Ragner Nurske's Theory of Disguised Unemployment- Schumpeter's Theory of Development	12	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Structural Issues in Development Process

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 3: Structural Issues in Development Process	Concept of Human Capital- Role of Education, Health and nutrition in Human Capital - Meaning and Measurement of Poverty and Inequality- Measures to eradicate poverty and Inequality - Meaning of Inclusive growth - SHG and Microfinance- Migration – Urbanization- Formal and Informal Sector- Urban Informal Sector	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: OCTOBER** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Planning, Technology and Economic Development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT:	Concept and Role of infrastructure in Economic Development- Role of technology in Economic Development- Labour intensive versus Capital intensive technology- Schumacher's concepts of intermediate and appropriate technology- Green Technology- Meaning and	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave	PPTs, Group Discussion, Quizzes

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Module 4: Planning, Technology and Economic Development	**Types of Economic Planning- Role of Planning in Economic Development**		**MacMillan, 2005**	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 1: Introduction to Trade Theories**	Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade – Ricardian theory of comparative cost difference Heckscher - Ohlin Theory- Leontief's Paradox- Krugman's Model	**12**	**Kindleberger Charles P, International Economics, Homewood, USA, 1978**	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2021-22

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: Module 2: Balance of Trade and Balance of Payment	Concepts of Terms of Trade(Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand-Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy	12	Dominick Salvatore, International Economics: Trade and Finance, JohnWiley International Student Edition, 10th edition, 2011.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS:	Meaning and Functions of Foreign Exchange Market-Exchange rate determination, Factors influencing foreign exchange rate-Managed Flexibility-SWAP		Kindleberger Charles P, International Economics,	PPTs, Group Discussion, Quizzes

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Module 3: Foreign Exchange Market	Market, Components of foreign exchange reserves Foreign Aid Vs Foreign Trade, FDI and MNCs	12	Homewood, USA, 1978	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DR. NILIMA BHAGWAT **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2021-22**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: Module 4: International Economic Institutions and Economic Integration	IMF, World Bank - Role and functions-WTO-Objectives, Functions and Agreements with respect to TRIPS,TRIMS, GATS, AoA - Forms and objectives of Economic Integration-Cartels-Trade Blocs, ASEAN-European Union (EU)- NAFTA and SAARC.	12	Dominick Salvatore, International Economics: Trade and Finance, JohnWiley International Student Edition, 10th edition, 2011.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Glorita Pereira DEPARTMENT: Economics CLASS: TYBA SEMESTER: V MONTH: JUNE TO DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand microeconomic theory, working of markets and welfare theory

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 : General Equilibrium and Welfare Theory Moudle 2: Market Structure: Monopoly and Monopolistic competition Module 3 : Oligopoly	Concept of generla Equilibrium, Walrasian general equilibrium model, pareto optimality, Arrow Impossibility Theorem	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board
	Concept monopoly, measurement of monopoly power,price discrimination,monopolistic competition, chamberlain approach, equilibrium in monopolistic competition	14	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced	Chalk and Board

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Module 4 : Information Economics			Economic Theory	
	Cournot model, meaning and characteristics of oligopoly,price rigidity, collusive oligopoly, cartel formation, Game theory	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board
	Search and Cost, theory of asymmetric information, market for lemons, adverse selection, price signalling, moral hazard, principle-agent problem	12	H.L Ahuja Advanced Microecomic Theory, M.L.Jhingan Advanced Economic Theory	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __40_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND BASIC PRINCIPLES OF MICROECONOMIC THEORY.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module - I: Introduction to Microeconomics	Module - I: Introduction to Microeconomics : Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	2	N.Gregory Mankiw, (2015), "Principles of Microeconomics" 7th edition-Cengage Learning	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: F.Y.B.A. ENG (DIV A AND B) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE CONCEPT OF CONSUMER'S BEHAVIOUR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – I Module IV: Consumer's Behavior	Module IV: Consumer's Behavior Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	2	M.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. H.L.Ahuja, (2016) "Advance Economics	Group Discussion, PPT, QUIZ .

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			Theory" S.Chand & Company Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: M.A. PART II SEMESTER: III MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND CLASSICAL TRADE THEORIES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
INTERNATIONAL TRADE: THEORY AND POLICY Module 1: Classical and Neoclassical Theories of Trade.	Brief review of absolute and comparative advantage of trade, real and opportunity cost approaches, terms of trade, reciprocal demand and offer curves, The Heckscher – Ohlin (H-O) Theory, Factor Price Equalization Theorem, Leontief's paradox, Rybczynski Theorem, Product cycle theory and technological gap theory.	4	1.Grimwade Nigel, International Trade (Second Ed), Routledge, London 2001 2.Grubel H.G. and P.J. Lloyd, Intra-Industry Trade, Macmillan, London,19	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS
CLASS: M.A. PART II SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO UNDERSTAND THE ROLE AND FUNCTIONS OF VARIOUS TRADE BLOCS IN INTERNATIONAL TRADE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INTERNATIONAL TRADE: THEORY AND POLICY Module 4: Contemporary	Regionalism and Multilateralism in the context of WTO, Critical Evaluation of the Role played by WTO, Overview of regional trading arrangement: SAARC, SAFTA, ASEAN, European Union, NAFTA.	4	1.Anderson, K. (2002) 'Peculiarities of Retaliation in WTO Dispute Settlement', World	Group Discussion, PPT, QUIZ .

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Regional Trading and WTO.			Trade Review 1, 2: 123-134 2. Esserman, S. and Howse, R. (2003) 'The WTO on Trial', Foreign Affairs 82, 1: 130-140	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: M.A. PART II **SEMESTER: IV** **MONTH: DEC-APRIL** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER : DEMOGRAPHY: THEORY AND POLICY Module 2: Nuptiality and Fertility	Concepts of Nuptiality, Analysis of Marital Status Data, Singulate Mean Age at Marriage, Concepts and Measurements of Cohort and Period Fertility, Rele’s Method, Bongaarts Proximate determinants of fertility	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2021.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: M.A. PART II **SEMESTER: IV** **MONTH: MARCH** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER: DEMOGRAPHY: THEORY AND POLICY Module 2: Nuptiality and Fertility	Socio-economic determinants of proximate variables, indirect estimation of Fertility, Social Engineering.	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2021.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: M.A. PART II SEMESTER: IV MONTH: APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: BAKING SECTOR REFORMS IN THE WORLD

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:DEMOGRAPHY: THEORY AND POLICY Module 4: Migration and Population Projections	Concepts, Patterns and Measures of Migration, Migration Theories and Models (Ravenstein's, Lee's, Wolpert's and Todaro's Models). Internal and International Migration, Spatial Distribution and Urbanization, Importance of Population Projection.	2	Bhende AA and T. Kantikar, Principles of Population Studies, Himalaya publishers, Mumbai- 2000.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: JUNE-DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING OF MACROECONOMICS AND CONCEPTS OF NATIONAL INCOME

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE I: Introduction to Macroeconomics and National Income	Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposable Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income: Closed Economy (Two and Three Sector) and Open Economy Models (Four Sector Model)	3	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: RELATIONSHIP AMONG INCOME, CONSUMPTION, SAVINGS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II:MACRO ECONOMICS I MODULE II: Consumption and Investment	Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier	3	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: DEMAND AND SUPPLY OF MONEY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE III: Supply of Money and Demand for Money	Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches	3	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: FUNCTIONS OF BANK

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: Banking	Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional	3	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JUNE-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE I: Module - I: Inflation	Module - I: Inflation The Economics of Depression, Hyperinflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO II:MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW : Post Keynesian Economics

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JUNE-DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE I: Module - I: Inflation	Module - I: Inflation The Economics of Depression, Hyperinflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

ECO II:MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Bernanke and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO KNOW : Post Keynesian Economics

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (ENGLISH) (DIV A & B) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JUNE- DECEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: DERIVATION OF IS-LM CURVE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 1: Post Keynesian Synthesis	Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment- Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Phillips Curve - Adaptive Expectations and Rational Expectations.	4	Dornbusch, Fischer and Startz (2018): Macroeconomics, McGraw Hill Education (India) Pvt. Ltd.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: TRADE CYCLE THEORIES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**	**Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.**	**4**	Mankiw N Gregory (2003), Macroeconomics , 6" edition, Worth Publishers, New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2022-23**

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: EXCHANGE RATE SYSTEM IN THE WORLD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 3: Exchange Rate Regimes and Currency Crises	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency - Currency Crisis-Causes, Impact and Measures	4	Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: CURRENCY MARKET IN THE WORLD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III Module 4: International Monetary System	Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro- Currency Market - Causes and Consequences of Global Economic Crisis - Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) - New Development Bank (NDB): Asian Development Bank (ADB).	4	Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar.	PPTs, Group Discussion, Quizzes

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER: V** **MONTH: JUNE -DEC** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO : Get the information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 1: Classical Economics**	Mercantilism and Physiocracy: Introduction -Adam Smith: Liberalism -Division of Labour -Theory of Value - David Ricardo: Rent Theory- Wage Theory - Theory of Value- Karl Marx: Surplus Value Materialistic Interpretation of History -Scientific Socialism	**3**	Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.	**PPTs, Group Discussion, Quizzes**

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JULY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Get the information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 2: Neoclassical Economics**	Alfred Marshall : Thought on Value - Representative Firm - Consumer's Surplus - Internal and External Economies-Quasi Rent - Schumpeter: Economic Development And Innovation-Pigou :Welfare Economics.	**3**	Ghosh and Ghosh: Concise History of Economic Thought, Himalaya Publishers.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO : UNDERSTAND TRADE CYCLE, FISCAL POLICY.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT - I **Module 3: Keynesian Ideas**	Employment Theory- Money- Wage Rigidity Model- Multiplier and accelerator and their interaction - Trade Cycle - Inflation -Role of Fiscal Policy - Keynesian Economics and Developing Countries	**3**	Gide, O. and G. Rist, A History of Economics Doctrine. George Harrop Co. London. 1956.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: SEPTEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO : Establish the correlation of Economics with other subjects.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT - I **Module 4: Post-Keynesian Economics**	Supply Side Economics -Hayek’s Theory of Trade Cycle- Life Cycle theory Consumption- Friedman: Theory of Demand for Money - Long-Run Philips Curve - Mankiw's New Keynesian Model - Stagflation.	**3**	Gide, O. and G. Rist, A History of Economics Doctrine. George Harrop Co. London. 1956.	**PPTs, Group Discussion, Quizzes**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: DECEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Familiarize with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT-II	Kautilya on welfare state -Dadabhai Naoroji's Thoughts on Drain Theory- Ranade's Case on Protection - R. C. Dutt on Imperialism - Land Tax and Public Finance - Gopal Ganesh Agarkar.	**3**	Ajit K.Dasgupta,A History of Indian Economic Thought,	**PPTs, Group Discussion, Quizzes**

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Module 1: Indian Economic Thought			(1993)Routledge London and New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JANUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Familiarize with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF			Ajit	

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ECONOMIC THOUGHT-II **Module 2: Economic Thought of Mahatma Phule and Gandhi**	Mahatma Phule's Views on Agriculture - Reasons of Farmer's Poverty - Gandhian Economic Thoughts on Self-Sufficient Village Economy - Dignity of Labour – Trusteeship - and Sarvodaya.	**3**	K.Dasgupta,A History of Indian Economic Thought, (1993)Routledge London and New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: FEBRUARY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Get information about the genesis of Economics and its modern scenario

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT-II **Module 3: Economic Thought of Dr. B.R.Ambedkar, G.K.Gokhale and Dr. Manmohan Singh**	Dr.Ambedkar's Case for State Socialism - Problem of Rupee - Public Finance – G.K.Gokhale on Development and Welfare - Dr. Manmohan Singh's ' Three Steps' to Stem India's Economic Crisis.	**3**	Ajit K.Dasgupta,A History of Indian Economic Thought, (1993)Routledge London and New York.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Get information about the genesis of Economics and its modern scenario.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX: HISTORY OF ECONOMIC THOUGHT-II **Module 4: Nodel Prize Winners in Economics**	Dr. Amartya Sen (1998) -Robert. A. Mundell (1999) -Joseph Stiglitz(2001) -Dr. Abhijeet Banarjee (2019)	**3**	Encyclopaedia of Nobel Laureate, Ed's, (2002) R. Kapila & A. Kapila, Academic Foundation.	**PPTs, Group Discussion, Quizzes**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A.(ENGLISH) **SEMESTER:** V **MONTH:** JUNE -DEC **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 1: Meaning of Economic Growth and Development	Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I, G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs.	4	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.	PPTs, Group Discussion, Quizzes

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Various Theories of Growth and Development

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 2: Theories of Economic Development	Rostow's Stages of Growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis – Harrod – Domar Growth Model – Lewis Model of Unlimited Supply of Labour – Ragnar Nurske's Theory of Disguised Unemployment- Schumpeter's Theory of Development	4	Todaro, Michael P. and Stephen C. Smith. Economic Development, 8e. Delhi: Pearson Education, 2003.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO KNOW: Structural Issues in Development Process

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 3: Structural Issues in Development Process	Concept of Human Capital- Role of Education, Health and nutrition in Human Capital - Meaning and Measurement of Poverty and Inequality- Measures to eradicate poverty and Inequality - Meaning of Inclusive growth - SHG and Microfinance- Migration – Urbanization- Formal and Informal Sector- Urban Informal Sector	4	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER:** V **MONTH:** SEPTEMBER **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Planning, Technology and Economic Development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: Module 4: Planning, Technology and Economic Development	Concept and Role of infrastructure in Economic Development- Role of technology in Economic Development- Labour intensive versus Capital intensive technology- Schumacher's concepts of intermediate and appropriate technology- Green Technology- Meaning and Types of Economic Planning- Role of Planning in Economic Development	12	Thirlwall, A.P. Growth and Development 8e. New York: Palgrave MacMillan, 2005	PPTs, Group Discussion, Quizzes

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**
CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: JUNE-DECEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: INDIAN LABOUR MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II **Module 1: Introduction - Indian Labour Market**	**Characteristics of the Indian Labour Market, Child Labour and Women Labour -Problems and Measures, Labour Market Reforms - Exit Policy and Need for Safety Nets, Second National Commission on Labour, Globalization and its impact on Indian Labours.**	**3**	U. Ratna Sen, Industrial Relations in India - Shifting Paradigms (2005), Macmillan, New Delhi.	**PPTs, Group Discussion, Quizzes**

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: WORKING OF TRADE UNION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II	**Definition and Functions of Trade Unions, Historical Evolution of Trade Unions in India and their Present Status- Problems of Trade Unions in India- Role of**	**3**	Mamoria C.B. and Mamoria S. (2002), Dynamics of Industrial	

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Module 2: Trade Unionism	**Outside Leadership- International Labour Organization.**		Relations, Himalaya Publishing House, Mumbai.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (ENGLISH) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: ROLE AND IMPORTANCE WORKERS PARTICIPATION IN FUNCTIONING OF THE INDUSTRY

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II **Module 3: Industrial Relations**	Causes of Industrial Disputes and Their Settlement Mechanism- Collective Bargaining - Concept, Features - Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India -Workers’ Participation in Management- Concept, Objectives and Forms of Workers Participation in India -Working Conditions and life style of Indian workers.	3	CO Monappa A, (2006), Industrial Relations, Tata McGraw Hill Publishing Company Ltd, New Delhi.	PPTs, Group Discussion, Quizzes

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: VI** **MONTH: MARCH** **ACADEMIC YEAR: 2022-23**

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS LABOUR WELFARE THEORIES AND PROGRAMMES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VI: INDUSTRIAL AND LABOUR ECONOMICS-II **Module 4: Labour Welfare and Social Security**	**Concept -Theories and Principles of Labour Welfare- Agencies for Labour Welfare, Role of the Labour Welfare Officer - Social Security-Concept; Social Assistance and Social Insurance – Social Security Measures in India - Indian Labour Legislations.**	**3**	Mamoria C.B. and Mamoria S. (2002), Dynamics of Industrial Relations, Himalaya Publishing House, Mumbai.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JUNE-DEC** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: CONCEPT, QUALITIES OF ENTREPRENEUR

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 1: Entrepreneurship**	Concept of an entrepreneur and entrepreneurship, qualities of the successful entrepreneurs- role and functions of entrepreneurs in economic development- factors influencing entrepreneurship- Challenges before women entrepreneurship	**4**	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Industries New Potentials – Deep & Publications 1999	**PPTs, Group Discussion, Quizzes**

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: JULY** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: Skills required for Starting a new venture

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 2: Starting a new venture**	Project identification - selection and formulation, Registration of small scale industries - project report - Sources of finance for a business - Export documents and trends of small enterprises- major constraints in export performance.	**4**	Desai Vasant, Dynamics of Entrepreneurial Development and Management, Himalaya Publication	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: AUGUST** **ACADEMIC YEAR: 2022-23**

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: ABOUT THE SMALL SCALE INDUSTRIES

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII : ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 3: Small scale industries**	Meaning and scope of small scale industries, importance of small scale industries, problems faced by small scale industries, SWOT analysis for small scale industries, forms of business organizations: Sole proprietorship – Features, advantages & disadvantages. Partnership - Features, advantages & disadvantages. Joint stock Company – Features, advantages & disadvantages. Co-operative – Features, advantages & disadvantages	**4**	Murthy C.S.V. Small Industries & Entrepreneurship Development, Himalaya Publication	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

HBorwarkar

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. HARSHAVARDHINI ARVIND BORWANKAR **DEPARTMENT: ECONOMICS**

CLASS: T.Y.B.A. (ENGLISH) **SEMESTER: V** **MONTH: SEPTEMBER** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: FUNDAMENTALS OF MANAGEMENT IN SMALL SCALE INDUSTRIES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VII: ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 4:** Management and incentives for small scale industries	Fundamentals of management: productions and operations management- working capital management, marketing management - Human resource management- Total quality management - Management information system- Incentives to small scale industries.	**4**	Singh P.N. and Saboo J.C., Entrepreneurship Management, P.N.Singh Centre	**PPTs, Group Discussion, Quizzes**

HBorwankar

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div-A & C **SEMESTER:** I **MONTH:** August **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics Module - I: Introduction to Microeconomics	.Microeconomics: Meaning, Scope, Nature, Importance and Limitations; Basic Economic	02	M.L.Jhingan, (2006) "Microeconomics Theory", 5	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

	Problems; Role of Price Mechanism in a Market Economy; Positive Economics and Normative		th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.	

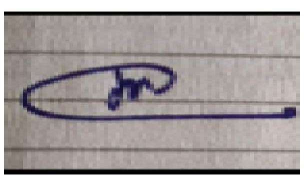
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: September** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :



SIGNATURE OF THE STAFF

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- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics - Module - I: Introduction to Microeconomics	Economics; Concepts of Equation, Functions, Graphs, Diagrams, Line, Slope and Intercept	02	**.L.Jhingan, (2006) “Microeconomics Theory”, 5 th edition Vrinda Publication (P) Ltd.** **5. H.L.Ahuja, (2016) “Advance Economics**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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			Theory" S.Chand & Company Ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A.Div A & C **SEMESTER:** I **MONTH: October** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
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		ALLOTED		
Micro economics - Module IV: Consumer's Behavior	Module IV: Consumer's Behavior (12 Lectures) Introduction to Cardinal and Ordinal Approaches; Indifference Curve Analysis - Properties of Indifference Curves, Budget Line, and Consumer's Equilibrium; Income, Price and Substitution	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd. 5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: November** **ACADEMIC YEAR:** 2022/23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the concept of micro economics
- Understand the exchangeRole of Price Mechanism in a Market Economy
- Positive Economics and Normative

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Micro economics - Module IV: Consumer's Behavior	Effect; Derivation of Demand Curve; Consumer's Surplus: Strong Ordering and Weak Ordering	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			th edition Vrinda Publication (P) Ltd. **5. H.L.Ahuja, (2016) “Advance Economics Theory” S.Chand & Company Ltd.**	

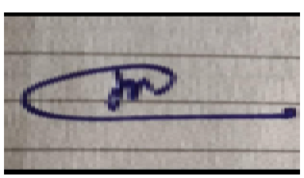
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** II **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :



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- Understand the concept of cost & revenue .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Microeconomics – II Module II: Cost & Revenue Analysis	Concepts of Costs: Money and Real Cost, Social Cost, Private Cost, Explicit and Implicit Cost, Opportunity Cost; Relationship between Average, Marginal and Total Cost;	02	**Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd.** **5. H.L.Ahuja,**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			(2016) "Advance Economics Theory" S.Chand & Company Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** II **MONTH:** February **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

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The learners will be able to :

- Understand the concept of cost & revenue

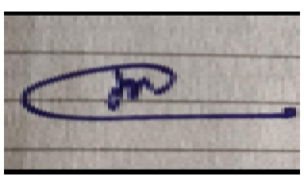
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module II: Cost & Revenue Analysis	Derivation of Short Run and Long Run Cost Curves; Concepts of Revenue: Types and Interrelationship	02	Sikdar, S. (2006), Principles of Macroeconomics,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: March** **ACADEMIC YEAR:** 2022-23



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SIGNATURE OF THE H.O.D.

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the Concept Of Equilibrium

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module IV: Equilibrium in Different Market Structure	Concept Of Equilibrium: TR - TC And MR - MC Approach; Features of Perfect Competition; Monopoly and Monopolistic Competition, Short Run and Long Run Equilibrium of Firm and	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: F.Y.B.A. Div A & C **SEMESTER:** I **MONTH: April** **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Understand the Concept Of Equilibrium

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO I: Microeconomics – II Module IV: Equilibrium in Different Market Structure	Industry under each Market Condition; Selling Cost and Wastages under Monopolistic Competition	02	**.L.Jhingan, (2006) "Microeconomics Theory", 5 th edition Vrinda Publication (P) Ltd.** **5. H.L.Ahuja, (2016) "Advance Economics Theory" S.Chand & Company Ltd.**	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02 & 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND. **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Meaning and Scope of Public Finance
- To understand Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles
- To understand Principles of Sound Finance and Functional Finance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
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		ALLOTED		
Paper -3 Public finance Module:- 1 introduction	Meaning and Scope of Public Finance; Public Finance versus Private Finance; Market Failure: Public Goods and Private Goods, Externalities, Efficiency versus Equity; Principles of Sound Finance and Functional Finance; Allocation, Distribution, Stabilisation and Growth Functions of the Government	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth Finance Commissio	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

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			n,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

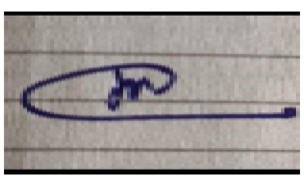
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand the Law of Maximum Social Advantage;
- To understand Types of Public Budget;
- To understand Role of Taxation
- To understand Determination of Tax Burden
-
- To understand th tax system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED



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Late Shri. Vishnu Waman Thakur Charitable Trust
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Unit III Fiscal Policy: Public Expenditure and Debt	Dalton’s and Musgrave Versions of the Law of Maximum Social Advantage; Role of Government in a Modern Economy; Types of Public Budget; Structure of Public Budget; Role of Taxation; Merits and Demerits of Direct and Indirect Tax Policy; Features of Good Tax System; Concept of Impact, Incidence and Shifting of Taxation; Elasticity and	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth Finance Commission,Governm	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Determination of Tax Burden		ent of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** October **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Canons of Public Expendituree
- To understand Classification of Public Expenditure
- To understand Meaning and Types of Public Debt
- To understand Concepts of Deficit

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III Fiscal Policy: Public Expenditure and Debt	Canons of Public Expenditure; Classification of Public Expenditure; Wagner's Law of Public Expenditure; Public Expenditure as an Instrument of Fiscal Policy; Meaning and Types of Public Debt; Burden of Public Debt; Principles of Public Debt Management; Concepts of Deficit	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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			the Fourteenth Finance Commissio n,Governm ent of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** III **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Budget of The Government of India
- To understand Components of Public Expenditure
- To understand Appraisal of FRBM Act
- To understandFourteenth Finance Commission Recommendations

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VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit IV Indian Public Finance	Budget of The Government of India (Previous Financial Year); Sources of Public Receipts (Tax And Non-Tax, Introduction To GST); Components of Public Expenditure; Sources of Public Borrowing and Debt Liabilities; Deficits; Appraisal of FRBM Act 2004; Fiscal Federalism: Fourteenth Finance Commission Recommendations	03	1)Sury M.M., (1990), Government Budgeting in India, Commonwealth Publishers. 2)Bhatia H.L., (2012), Public Finance, Vikas Publications.3). Report of the Fourteenth	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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SIGNATURE OF THE H.O.D.

			Finance Commission,Government of India.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** january **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Structural Changes In Indian Economy;
- Overview on Poverty Alleviation Programmes
- To understand the Measures to Reduce Regional Inequalities in India

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module- I: Introduction (12 Lectures)	Trends in India's National Income and PCI Since 1990; Structural Changes In Indian Economy; Brief Overview of the Employment Generation and Poverty Alleviation Programmes; Regional Inequalities; Measures to Reduce Regional Inequalities in India	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Role of Agriculture in Economic Development
- To understand Agricultural Price Policy
- Role and Function & Agricultural Marketing
- To understand Sources of Agricultural Finance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module - II: Agricultural Sector	Module - II: Agricultural Sector Role of Agriculture in Economic Development;	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Causes of Low Productivity; Agricultural Inputs; Agricultural Price Policy: Recent Minimum Support Price Policy; Income Support for Farmers; Sources of Agricultural Finance; Micro Finance; NABARD: Role and Function; Agricultural Marketing: Structure and Problems; National Policy for Farmers, 2007; Organic Farming Policy; Food Security in India		Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) 'Indian Economy', Himalaya Publishing House, Mumbai.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Industries and Economic Development
  Recent Policies and Programs for
- Industrial Development
- To understand Role and Trends of FDI
- To understand

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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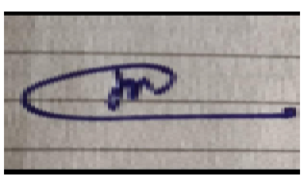
Module -III: Industrial Sector	Infrastructure for Industrial Development; Industrial Policies in India; Industrial Policy of 1991; Micro, Small and Medium Enterprises (MSMEs): Classification, Role and Policy Measures; Growth of Large Scale Industries and Economic Development; Recent Policies and Programs for Industrial Development: Start Up India, Make in India, Skill India; Role and Trends of FDI in Industrial Sector Development	03	Datt, Ruddra and K.P.M, Sundaram, (2017), ‘Indian Economy’, S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018) ‘Indian Economy’, Himalaya Publishing House, Mumbai.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:03

TEACHING PLAN (UNIT PLAN)



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: S.Y.B.A. **SEMESTER:** IV **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To understand Role of Service Sector in Indian Economy;
- Research and Development Services With Reference to Education and Skill India
- To understandGrowth and Performance of Healthcare;

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module -IV: Service Sector	Role of Service Sector in Indian Economy; Growth and Performance of Healthcare; Performance of Trade and Tourism, Information Technology	03	Datt, Ruddra and K.P.M, Sundaram, (2017), 'Indian Economy', S. Chand & Company Ltd., New Delhi. 4) Misra, S. K. and V. K. Puri, (2018)	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	and IT - Enabled Services; Research and Development Services With Reference to Education and Skill India; Performance of Service Sector during XIIth Five Year Plan		‘Indian Economy’, Himalaya Publishing House, Mumbai.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 03

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

- Enable students to apply and analyse issues in the development process.
- • Students will be able to identify the issues related to Growth and Development

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- • Students will be able to understand the policy options and analyzed the Measures taken for the
- Development of an economy.
-

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS - III Module 1: General Equilibrium and Welfare Economics	Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality – The Pareto Optimality Condition of Social Welfare - Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow’s Impossibility Theorem		Mankiw, N. Gregory, Principles of Microeconomics, Cengage Learning, 2015.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

- Enable students to apply and analyse issues in the development process.
- • Students will be able to identify the issues related to Growth and Development
- • Students will be able to understand the policy options and analyzed the Measures taken for the
- Development of an economy.
-

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

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ECOAME501-ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition	Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly - Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin’s Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity			CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

SIGNATURE OF THE STAFF

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- **TEACHING PLAN (UNIT PLAN)**

- **NAME OF THE STAFF:** Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS
- **CLASS:** T.Y.B.A. **SEMESTER:** V **MONTH:** October **ACADEMIC YEAR:** 2022_23
- **LEARNING OBJECTIVE/S:**

Enable students to apply and analyse issues in the development process.

• Students will be able to identify the issues related to Growth and Development

• Students will be able to understand the policy options and analyzed the Measures taken for the

Development of an economy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS -III Module 3: Oligopoly	The Cournot Model - Meaning and Characteristics of Oligopoly Market - Rigid Prices - The Sweezy Model of Kinked Demand Curve - Collusive Oligopoly -	03		CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	Cartel: Centralised and Market Sharing Cartel - Imperfect Collusion- Price Leadership Models, Game Theory - Prisoner's Dilemma, Nash Equilibrium and Dominant Strategy Equilibrium			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms.MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** v **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:

Enable students to apply and analyse issues in the development process.

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• Students will be able to identify the issues related to Growth and Development

• Students will be able to understand the policy options and analyzed the Measures taken for the

Development of an economy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME501- ADVANCED MICROECONOMICS -III Module 4: Information Economics	Economics of Search and Search Cost - The Theory of Asymmetric Information-The Market for Lemons and Adverse Selection - Risk Preference and Expected Utility - The Problem of Moral Hazard - Market Signaling - Principal-Agent Problem	03	Mansfield, Edwin, Micro-economics: Theory & Applications, 5th edition,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 02

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR	Meaning and Scope of Industrial Economics, Industrial Profile : Private sector - Performance and Problems; Cooperatives - features, types, merits and demerits; Public Sector - Role, Performance and Problems, Diversification and Industrial Combinations -	03	Desai S.S.M. and Bhalerao N, Industrial Economy of India,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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ECONOMICS Module 1: Introduction	Motives for Mergers and Acquisitions.		Himalaya Publishing House, Mumbai, 2008. 6	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS **Module 2: Industrial Location and Problem of Regional Imbalance**	Determinants of Industrial Location, Theories of Industrial Location - Weber's and Sargent Florence's Theories, Dispersion of Industries and the Problem of Regional Imbalance	03	Datt R. and Sundaram K.P.M, Indian Economy, S.Chand& Co., New Delhi, 2009	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** October **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRIAL AND LABOUR	Concept and Measurement of Industrial Productivity, Factors Affecting Industrial Productivity, Industrial Sickness - Causes, Effects and Remedial Measures,	03	Barthwal R.R, Industrial Economics, New	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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ECONOMICS Module 3: Industrial Productivity and Industrial Sickness	Rationalisation - Concept, Aspects and Impact		Age International Publishers, NewDelhi,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** November **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

SIGNATURE OF THE STAFF

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- To familiarize with the role of management and unions in the promotions of industrial relations.
- Examine the labour relation issues and its management
- To acquire skills in handling employer-employee relations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS Module 4: Industrial Development in India	New Industrial Policy, 1991; Disinvestment Policy; FIPB Revamp- Micro, Small and Medium Enterprises Development Act, 2006; National Manufacturing Policy, 2011,Recent Trends in India's Industrial Growth, Industrial Policy, 2012, Role of MNCs in the Indian Economy - Merits and Demerits, Issues in Industrial Proliferation and Environment Preservation; Pollution Control Policies.	03	Agrawal A.N, Indian Economy, New Age International Publishers, New Delhi, 2011.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Late Shri. Vishnu Waman Thakur Charitable Trust
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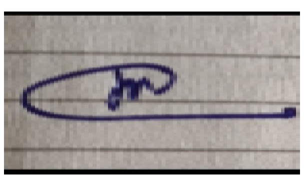
		ALLOTED		
INDUSTRIAL AND LABOUR ECONOMICS Module 1 : Introduction – Indian Labour Market	Characteristics of the Indian Labour Market - Child Labour and Female Labour – Problems and Measures- Globalisation and Indian Labour Market -Labour Market Reforms – Exit Policy and Need for Safety Nets - Second National Commission on Labour.	03	Datt R. and Sundaram K.P.M, Indian Economy, S.Chand & Co., New Delhi, 2009.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)



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NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTRIAL AND LABOUR ECONOMICS Module 2 : Trade Unionism	Definition and Functions of Trade Unions- Historical Evolution of Trade Unions in India and Their Present Status - Problems of Trade Unions in India - Role of Outside Leadership	03	2. Mamoria C.B. and Mamoria S, Dynamics of Industrial Relations, Himalaya	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			Publishing House, Mumbai, 2002.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTRIAL AND LABOUR ECONOMICS Module 3 : Industrial Relations	Causes of Industrial Disputes and Their Settlement Mechanism - Collective Bargaining – Concept, Features, Importance and Pre-requisites for Successful Collective Bargaining - Collective Bargaining in India - Workers‟ Participation in Management –Concept, objectives and Forms of Workers‟ Participation in India.	03	Mishra S.K. and Puri V.K, Indian Economy, Himalaya Publishing House, Mumbai,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- To familiarize students with the basic concepts of industrial relations, its philosophy, origin and Development.
- To develop knowledge on trade unions and its formation, structure, functions and legal

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDUSTIRAL AND LABOUR ECONOMICS	Concept, Theories and Principles of Labour Welfare - Agencies for Labour Welfare - Role of the Labour Welfare Officer - Social Security – Concept; Social Assistance and Social Insurance - Social Security Measures in India - International Labour Organization	03	Monappa A, Industrial Relations, Tata McGraw Hill	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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Module 4 : Labour Welfare and Social Security	and Its Impact on Indian Labour Legislations.		Publishing Company Ltd., New Delhi, 2006 5.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** June **ACADEMIC YEAR:** 2022_23

LEARNING Outcomes:-

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 1,: Entrepreneurship**	Concept of an entrepreneur and entrepreneurship, qualities of the successful entrepreneurs- role and functions of entrepreneurs in economic development- factors influencing entrepreneurship- Challenges before women entrepreneurship	04	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Potentials – Deep & Publications 1999 2. Desai Vasant, Dynamics of Entrepreneurial Developme	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

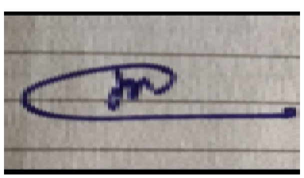
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** July **ACADEMIC YEAR:** 2022_23

LEARNING Outcomes:-

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries



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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module2: Starting a new venture**	**Project identification - selection and formulation, Registration of small scale industries - project report -** **Sources of finance for a business - Export documents and trends of small enterprises- major constraints in export performance.**	**Starting a new venture**	Barra G.S, Dangwal R.C.Entrepreneurship and Small Scale Industries New Potentials – Deep & Publications 1999 2. Desai Vasant, Dynamics of Entrepreneurial Developme	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

			nt and Management, Himalaya Publicatio	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

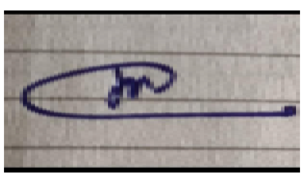
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** August **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

• Nurture the qualities of successful entrepreneurship

• Provides them knowledge about various processers to register for small scale industries which results in successful maintenances of such industries



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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 3: Small scale industries**	Meaning and scope of small scale industries, importance of small scale industries, problem faced by small scale industries, SWOT analysis for small scale industries, forms of business organizations: Sole proprietorship – Features, advantages & disadvantages. Partnership - Features, advantages &	04	Khushpat S. Jain House Export Import Procedures and Documentation' Himalaya Publishing House 5. Murthy C.S.V. Small Industries	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	disadvantages. Joint stock Company – Features, advantages & disadvantages. Co-operative – Features, advantages & disadvantages.		& Entrepreneurship Development, Himalaya Publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** V **MONTH:** September **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**

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- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOESSIC504 ENTREPRENEURSHIP & SMALL SCALE INDUSTRIES **Module 4: Management and incentives for small scale industries**	Fundamentals of management: productions and operations management- working capital management, marketing management - Human resource management- Total quality management - Management information system- Incentives to small scale industries.	04	Singh P.N. and Saboo J.C., Entrepreneurship Management, P.N.Singh Centre	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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Yashvant Keshav Patil College of Commerce
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** December **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 1: Post Keynesian Synthesis	Derivation of Aggregate Demand Curve with IS-LM - Aggregate Supply Curve - Determination of Equilibrium National Income and Price Level under Aggregate Demand and Aggregate Supply Model - Extension of IS-LM Model with Labour Market and Flexible Prices - Natural Rate of Unemployment- Long run Philips Curve - Friedman's Expectation Model - Tobin's Modified Philips Curve - Adaptive Expectations and Rational Expectations.	04	Blanchard, Oliver (2008), Macroeconomics, Pearson education, New Delhi, India. 2. Dornbusch, Fisher and Startz (2018): Macroeconomics, McGraw Hill Education	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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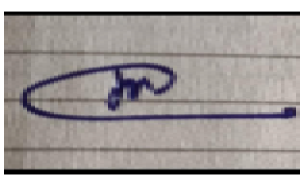
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 2: Trade Cycles	Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles - Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles.	04	Mankiw N Gregory (2003), Macroeconomics, 6" edition, Worth Publishers, New York. 4. Patil J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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SIGNATURE OF THE H.O.D.

			Prakashan, Kolhapur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Course Outcomes

- **On the completion of the course, the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development.**
- **Learners will have good understanding of problems in relation of rural development.**
- **Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III Module 3: Exchange Rate Regimes and Currency Crises	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility-Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System - Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency - Currency Crisis-Causes, Impact and Measures.	04	til J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur. 5. Rana K. C. & Verma K.N (2017), International Economics , Vishal Publishing	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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			CO. Jalandhar. 6. Salvatore D. (1997), International Economics, Printice Hall, New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

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.Identify and define basic terms and concepts of insurance

• Describe the importance of insurance for an individual and the economy

• Understand the concept of risk and its types, and the process of risk management.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOAME601 ADVANCED MACROECONOMICS - III **Module 4: International Monetary System**	Rise and Fall of International Gold Standard - Bretton Woods System- Breakdown of the Bretton Woods System - Monetary System after the Collapse of Bretton Woods System - Maastricht Treaty, Features, Effects and Importance of Euro-Currency Market - Causes and Consequences of Global Economic Crisis	02	til J. F (2005, Marathi Edition), Macroeconomic Analysis, Phadke Prakashan, Kolhapur.	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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	- Impact of Global Recession on the Indian Economy - Asia Infrastructure Investment Bank (AIIB) - New Development Bank (NDB): Asian Development Bank (ADB)		5. Rana K. C. & Verma K.N (2017), International Economics, Vishal Publishing CO. Jalandhar. 6. Salvatore D. (1997), International Economics, Printice Hall, New York.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** January **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- **the students will be able to understand the basic Concept of rural development.**
- **Learners will also be understanding objectives and importance of rural development**
- Describe the importance of rural development the economy
- Understand the problems of rural development

Course Outcomes
• On the completion of the course, the students will be able to understand the basic Concept of rural development.
• Learners will also be understanding objectives and importance of rural development.
• Learners will have good understanding of problems in relation of rural development.
• Learners will come to know what rural development programmes have initiated by the government to overcome the problems of rural development

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604 **RURAL DEVELOPMENT. :-** **Module 1: Rural Development: Introductory Aspects**	Concept, Nature and Scope of Rural Development, Charactersties of the Rural Economy, Objectives and Importance of Rural Development, The problems of Rural Development in India	04	Datt & Sundharam (2012), Indian Economy, S. Chand & Company LTD. Mumbai. 4. Desai Vasant (2012), Rural Developmen	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

SIGNATURE OF THE STAFF

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			t in India, Himalaya Publishing House, Mumbai. 5. Dr. I. Satya Sundaram (2002), Rural Development, Himalaya Publishing House, Mumbai. Page No. 3	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** February **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- **Learners will have good understanding of problems in relation of rural development**
- Identify the verious approach of rural development
- Evaluation of verious approach to rurul development

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604		04	Datt & Sundharam	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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RURAL DEVELOPMENT. :- **Module 2: Approaches to Rural Development**	Gandhian Approach, Rural Reconstruction Approach, Community Development Approach, Sectoral Approach, Participatory Approach, Area-Specific and Target Group Oriented Approach, Integrated Rural Development and Economic Development with Social Justice Approach		(2012), Indian Economy, S. Chand & Company LTD. Mumbai. 4. Desai Vasant (2012), Rural Development in India, Himalaya Publishing House, Mumbai. 5. Dr. I. Satya Sundaram (2002), Rural Development,	

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			Himalaya Publishing House, Mumbai. Page No. 3 to 24 6. Eleventh Five Year Plan 2007-12, Planning Commission, Government of India, New Delhi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

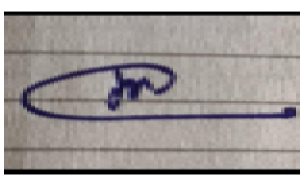
NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** March **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Identify and importans of the livestock economics
- Described agro based industries
- Understand the role of kvic

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604 **RURAL DEVELOPMENT. :-**	Livestock economics, Dairy Development, Social Forestry, Agro-Based Industries: Problems &	04	Annual Report 2019-20, 2018-19 & State performanc	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION



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Module 3: Diversification of Rural Economy	Remedial Measures, Role of KVIC in Rural Development, Recent Development of Science & Technology in Rural Development.		e report-2018-19 and Action plan 2019-20, Volume-I, Ministry of Rural Development, Department of Animal Husbandary & Dairying, Government of India, New	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms MANSI GAWAND **DEPARTMENT:** ECONOMICS

CLASS: T.Y.B.A. **SEMESTER:** VI **MONTH:** April **ACADEMIC YEAR:** 2022_23

LEARNING OBJECTIVE/S:
The learners will be able to :

Learners will come to know rural development programmes have initiated by the government to
- **overcome the problems of rural development**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECORDC604	An Overview of Rural Development Programmes, Provisions of Urban Amenities in Rural Area (PURA),	04	Eleventh Five Year Plan 2007-12,	CHALK AND TALK , GROUP DISCUSSION, PRESENTATION

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RURAL DEVELOPMENT. :- **Module 4: Rural Empowerment Programmes**	Rural Employment: Mahatma Gandhi National Rural Employment Guarantee Act -2005 (MGNREGA), Rural Livelihoods: Deendayal Antyodaya Yojana - National Rural Livelihoods Mission (DAY-NRLM), National Social Assistance Programme (NSAP), Microfinance and Self-help Groups		Planning Commission, Government of India, New Delhi. Thomas William and A.J. Christopher (2011), Rural Development: Concept and Recent Approaches, Rawat Publication, Jaipur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 04

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: JULY MONTH: JUL-DEC ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The very purpose of this course is to provide information about the biography and contribution of the most influential economists who influenced the economic fraternity and to whom we are obliged to for shaping up the economic thought process

THE LEARNERS WILL BE ABLE TO: BASIC UNDERSTANDING ABOUT THE CELEBRATED ECONOMISTS AND THEIR CONTRIBUTIONS STARTING FROM THE CLASSICAL PERIOD. (ADAM SMITH,RICARDIO,KARL MARX)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

R.P.Patil

SIGNATURE OF THE STAFF

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ECO IX : HISTORY OF ECONOMIC THOUGHT Module 1: Classical Economics	Mercantilism and Physiocracy: Introduction -Adam Smith: Liberalism -Division of Labour -Theory of Value - David Ricardo: Rent Theory- Wage Theory - Theory of Value- Karl Marx: Surplus Value Materialistic Interpretation of History -Scientific Socialism.	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication. Dr.Kulkarni S.P," Aarthik Vichargatha", Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: AUGUST ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The very purpose of this course is to provide information about the biography and contribution of the most influential economists who influenced the economic fraternity and to whom we are obliged to for shaping up the economic thought process

THE LEARNERS WILL BE ABLE TO:

R.P.Patil

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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THE CELEBRATED ECONOMISTS AND THEIR CONTRIBUTIONS STARTING FROM THE CLASSICAL PERIOD. (MARSHALL TO SCHUMPETER)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT **Module 2: Neo-Classical Economics**	Alfred Marshall : Thought on Value - Representative Firm - Consumer's Surplus - Internal and External Economies-Quasi Rent - Schumpeter: Economic Development And Innovation- Pigou :Welfare Economics.	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta",** Diamond Publications	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

THE VERY PURPOSE OF THIS COURSE IS TO PROVIDE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF THE MOST INFLUENTIAL ECONOMISTS WHO INFLUENCED THE ECONOMIC FRATERNITY AND TO WHOM WE ARE OBLIGED TO FOR SHAPING UP THE ECONOMIC THOUGHT PROCESS

THE LEARNERS WILL BE ABLE TO:

CONTRIBUTIONS OF KEYNES IN ECONOMICS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IX : HISTORY OF ECONOMIC THOUGHT **Module 3: Keynesian Ideas**	Employment Theory- Money- Wage Rigidity Model- Multiplier and accelerator and their interaction - Trade Cycle - Inflation -Role of Fiscal Policy - Keynesian Economics and Developing Countries	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha",** Shree Sainath Prakashan, Nagpur	Group Discussion,PPT ,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS
CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-2023

R.P.Patil

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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LEARNING OBJECTIVE/S:

THE VERY PURPOSE OF THIS COURSE IS TO PROVIDE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF THE MOST INFLUENTIAL ECONOMISTS WHO INFLUENCED THE ECONOMIC FRATERNITY AND TO WHOM WE ARE OBLIGED TO FOR SHAPING UP THE ECONOMIC THOUGHT PROCESS

THE LEARNERS WILL BE ABLE TO: FOCUS ON POST KEYNESIAN ECONOMICS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT Module: 4 Post Keynesian Economics	Post-Keynesian Economics Supply Side Economics -Hayek's Theory of Trade Cycle- Life Cycle theory Consumption- Friedman: Theory of Demand for Money - Long-Run Philips Curve - Mankiw's New Keynesian Model - Stagflation.	12	. **Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication.	Group Discussion, PPT,Quiz

R.P.Patil

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			Dr.Kulkarni S.P," Aarthik Vichargatha", Shree Sainath Prakashan, Nagpur.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO:

Students get familiarized with the leading Indian economists who significantly contributed to the stream of Indian economic thought.

R.P.Patil

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : **HISTORY OF ECONOMIC THOUGHT-II Module 1: Indian Economic Thought**	Kautilya on welfare state -Dadabhai Naoroji's Thoughts on Drain Theory- Ranade's Case on Protection - R. C. Dutt on Imperialism - Land Tax and Public Finance - Gopal Ganesh Agarkar.	06	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra',** Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha"**, Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

R.P.Patil

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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Yashwant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO: FOCUS ON MAHATMA PHULE' S AGRICULTURE VIEW & GANDHIAN THOUGHT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : **HISTORY OF ECONOMIC THOUGHT-II**	Mahatma Phule's Views on Agriculture - Reasons of Farmer's Poverty - Gandhian Economic Thoughts on Self-Sufficient Village Economy - Dignity of Labour – Trusteeship - and Sarvodaya	06	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas'**, Vidya books publishers.	Group Discussion, PPT,Quiz

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Module 2: Economic Thought of Mahatma Phule and Gandhi			**Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha"**, Shree Sainath Prakashan, Nagpur	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

This paper aims to provide the information about the biography and contribution of various economic thinkers. This paper is framed with the objective of making students aware of the varying phases of economic thoughts and development of that into economic science.

THE LEARNERS WILL BE ABLE TO:

R.P.Patil

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CONTRIBUTIONS OF DR. B.R. AMBEDKAR AND DR.MANMOHAN SINGH IN ECONOMICS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT-II Module 3: Economic Thought of Dr. B.R. Ambedkar, G.K. Gokhale and Dr. Manmohan Singh	Dr. Ambedkar's Case for State Socialism - Problem of Rupee - Public Finance – G.K. Gokhale on Development and Welfare - Dr. Manmohan Singh's ' Three Steps' to Stem India's Economic Crisis	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas',** Vidya books publishers. **Dr. Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha",** Shree Sainath Prakashan, Nagpur	Group Discussion, PPT,Quiz

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			Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta", Diamond Publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THIS PAPER AIMS TO PROVIDE THE INFORMATION ABOUT THE BIOGRAPHY AND CONTRIBUTION OF VARIOUS ECONOMIC THINKERS. THIS PAPER IS FRAMED WITH THE OBJECTIVE OF MAKING STUDENTS AWARE OF THE VARYING PHASES OF ECONOMIC THOUGHTS AND DEVELOPMENT OF THAT INTO ECONOMIC SCIENCE.

THE LEARNERS WILL BE ABLE TO:

KNOW CONTRIBUTION OF NOBEL PRIZE WINNER ECONOMIST.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IX : HISTORY OF ECONOMIC THOUGHT-II Module 4: Nobel Prize Winners in Economics	Dr. Amartya Sen (1998) , Robert. A. Mundell (1999) , Joseph Stiglitz(2001) , Dr. Abhijeet Banarjee (2019)	12	**Prof. Raykhelkar,' Aarthik Vichara cha Etihas'**, Vidya books publishers. **Dr.Chavhan N.L.,'Pragat Sukshmalakshi Arthashastra'**, Prashant Publication. **Dr.Kulkarni S.P," Aarthik Vichargatha**", Shree Sainath Prakashan, Nagpur Dr. Kulkarni,B. D.,Dr.Dhamdhere S.V., " Aarthik Vichar va Vicharvanta", Diamond Publications	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I	Definition of Insurance, Characteristics of Insurance, Principles of Insurance, Distinction between		Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	

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Module 1: Introduction	Assurance and Insurance .	04	https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

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SIGNATURE OF THE H.O.D.

THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I **Module 1: Introduction**	Purpose and need of insurance, Functions of Insurance, Classification of Insurance, Limitations of Insurance.	08	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil   DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI)   SEMESTER: V   MONTH: SEPTEMBER   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

KNOW RECENT TRENDS IN INSURANCE SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/

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				ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I **Module 3: Recent Trends in Insurance Sector**	Insurance and economic development, Insurance institutions as financial intermediaries; insurance institution as investment institution; Growth & Performance of Public & Private Insurance Companies in India: Life and Non-Life sector including foreign collaborations;	06	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

FOCUS ON GOVERNMENT POLICIES IN INDIA.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - I	Disinvestment of LIC, Listing of Public & Private Insurance companies in Stock market; Government policies in insurance – Ayushman Bharat	06	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion,

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Module 3: Recent Trends in Insurance Sector	Yojna, Pradhan Mantri Suraksha Bima Yojna, Pradhan Mantri Jeevan Jyoti Bima Yojna.		https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

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THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of life, health & general insurance

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 1: Introduction to Life Insurance**	Meaning and Definition, Features of Life Insurance, Benefits of Life Insurance - Method of risk classification in Life Insurance - Treatment of Sub-standard risk in Life Insurance - Types of life insurance policies -Term insurance plan, Endowment policy - ULIP plan - Retirement plan -	05	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, PPt,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

Identify and define basic terms and concepts of life, health & general insurance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/

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				ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 1: Introduction to Life Insurance**	Calculation of net Premium - Calculation of single premium for one year term insurance policy - Calculation of single premium for five year term policy - Calculation of single premium for pure endowment insurance policy and calculation of single premium for ordinary endowment policy.	07	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion, PPt,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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THE COURSE IS DESIGNED TO PROVIDE AN UNDERSTANDING OF THE FUNDAMENTALS OF INSURANCE. WITH THE OPENING OF THE INSURANCE SECTOR TO PRIVATE PLAYERS, THE INTEREST IN THE SUBJECT HAS INCREASED. THE PAPER ON ECONOMICS OF INSURANCE ATTEMPTS TO PROVIDE A FAIRLY COMPREHENSIVE VIEW OF THE SUBJECT TO THE UNDERGRADUATE STUDENTS IN ECONOMICS.

THE LEARNERS WILL BE ABLE TO: FOCUS ON INSURANCE ACT AND IRDAI

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 3: IRDAI & Rural Insurance**	The Insurance Act, 1938 (as amended)-The Insurance Regulatory and Development Authority Act, 1999 (as amended) -The Regulatory Body- IRDAL duties-functions-powers and role-	12	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House. https://www.google.com/url?sa=t&source=web&rct=j&url=https://www.insuranceinstituteofindia.com/web/guest/ic-33-marathi&ved=2ahUKEwio3_K9_JjxAhW7zzgGHTh-DF8QFnoECAoQAQ&usg=AOvVaw2NhuYgu1zKZUIaTSYKgW6P	Group Discussion, Chalk & Board,Quiz

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The course is designed to provide an understanding of the fundamentals of insurance. With the opening of the insurance sector to private players, the interest in the subject has increased. The paper on Economics of Insurance attempts to provide a fairly comprehensive view of the subject to the undergraduate students in Economics.

THE LEARNERS WILL BE ABLE TO:

KNOW FUNCTIONS OF IRDAI AND RURAL INSURANCE

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO VIII : ECONOMICS OF INSURANCE - II **Module 3: IRDAI & Rural Insurance**	Rural Insurance: Need and potential of rural insurance - IRDAI provisions on obligations of insurers to rural and social sectorNeed and significance of Micro Insurance	12	Dr. PK Gupta (2011), Insurance & Risk Management, Himalaya Publishing House.	Group Discussion, Chalk & Board Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Enables students to get knowledge on new market structure, imperfect competition.

.THE LEARNERS WILL BE ABLE TO:
Provides understanding on the welfare economics and economics of information

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III **Module 1: General Equilibrium and Welfare Economics**	Concept of General Equilibrium and Walrasian General Equilibrium Model - Pareto Optimality – The Pareto Optimality Condition of Social Welfare	02	**Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra',** Prashant Publications.	Group Discussion, PPT,Quiz

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MICROECONOMICS - III **Module 1: General Equilibrium and Welfare Economics**	Marginal Conditions for Pareto Optimal Resource Allocation - Perfect Competition and Pareto Optimality - Arrow's Impossibility Theorem	10	**Dr. Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra',** Prashant Publications. Prof.Deshmukh Ram,'Aadhunik Sthul Arthashastra', Vidya books publishers.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

Enables students to get knowledge on new market structure, imperfect competition.

.
THE LEARNERS WILL BE ABLE TO: Focus on Monopoly

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition	Concept of Monopoly - Measurement of Monopoly Power - Price Discrimination: Types and Classification of Price Discrimination (Degrees of Price Discrimination) - Equilibrium under discriminating Monopoly	06	**Dr. Zamre G.N. ,'Sukshma Arthashastriya Vishleshan'**. **Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra'**, Prashant Publications.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Enables students to get knowledge on new market structure, imperfect competition.

.

THE LEARNERS WILL BE ABLE TO: REGULATION OF MONOPOLY AND FOCUS ON MONOPOLISTIC COMPETITION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT

R.P.Patil

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
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				TOOLS USED
ECO IV: ADVANCED MICROECONOMICS - III Module 2: Market Structure: Monopoly and Monopolistic Competition (14 Lectures)	Regulation of Monopoly Market Product Differentiation in Monopolistic Competition - Chamberlin's Alternative approach- Equilibrium under Monopolistic Competition - Excess Capacity	06	**Dr.Chavhan N.L., 'Pragat Sukshmalakshi Arthashastra', Prashant Publications.** **Prof Dr.Dhamdhere S.V.,'Sukshma Arthashastra'**, Diamond publications.	Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

R.P.Patil

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NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

To make students aware about Post Keynesian Synthesis and understand various aspects of Trade Cycles.

Students will be able to describe the contemporary Exchange Rate Regimes and International Monetary System

THE LEARNERS WILL BE ABLE TO:

understand various aspects of Trade Cycles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV:	Meaning- Nature- Features and Types of Trade Cycles - Phases of Trade Cycles			

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ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**		04		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPTS OF REAL EXCHANGE RATE , FISCAL & EXCHANGE RATE POLICY

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III **Module 2: Trade Cycles**	Theories of Trade Cycles- Hawtrey's, Kaldor, Paul Samuelson and Hicks - Measures to Control Trade Cycles	08		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF EXCHANGE RATE REGIMES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO IV: ADVANCED MACROECONOMICS - III **Module 3: Exchange Rate Regimes and Currency Crises**	Managed Exchange Rate- Advantage and Disadvantage - Policy of Managed Flexibility- Adjustable Peg System, Crawling Peg System, Managed Floating System, Clean and Dirty Float System	07		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Prashil Patil DEPARTMENT: ECONOMICS

CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: ECONOMIC CRISES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO IV: ADVANCED MACROECONOMICS - III **Module 3: Exchange Rate Regimes and Currency Crises (12 Lectures)**	Balance of Payment and Exchange Rate - Is Balance of Payments Always in Balance? – Convertibility of Currency Currency Crisis-Causes, Impact and Measures.	05		Group Discussion, PPT,Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL DEPARTMENT: ECONOMICS CLASS: T.Y.B.A.(MARATHI) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: THE CONCEPT OF ECONOMIC GROWTH AND DEVELOPMENT, HDI

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 1: Meaning of Economic Growth and Development**	**Concepts of Economic Growth and Development-Distinction between Economic Growth and Development- Concept of Human Development- H.D.I.**	**12**	. **Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan'**, Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik**	**PPTs, Group Discussion**

R.P.Patil

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			Vrudhi aani Vikasache Arthashastra', Sheth publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: V** **MONTH: AUGUST**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS CONCEPTS OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 1: Meaning of Economic Growth and Development**	**G.D.I, Green GDP- Sen's Capability approach- Millennium Development Goals (MDGs)- Initiative by Indian government towards MDGs**	**12**	**.** **Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',** Sheth publications	**PPTs, Group Discussion, Quiz**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF:Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: SEPTEMBER

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS THEORIES OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 2: Theories of Economic Development**	**Rostow's Stages of Growth; Big Push Theory- Leibenstein's Critical Minimum Effort Thesis – Harrod – Domar Growth Model**	**12**	**Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',**	**PPTs, Group Discussion, Quizzes**

R.P.Patil

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			Sheth publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (MARATHI) SEMESTER: V MONTH: OCTOBER

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO KNOW: VARIOUS THEORIES OF GROWTH AND DEVELOPMENT.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ECO V: ECONOMICS OF GROWTH & DEVELOPMENT: **Module 2: Theories of Economic Development**	**– Lewis Model of Unlimited Supply of Labour – Ragner Nurske's Theory of Disguised Unemployment- Schumpeter's Theory of Development**	**12**	**Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan',** Shree Mangesh Prakashan, Nagpur. **Prof.Sontakke,Joshi,'Aarthik Vrudhi aani Vikasache Arthashastra',** Sheth publications	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MRS. RUPALI PRASHIL PATIL DEPARTMENT: ECONOMICS CLASS: T.Y.B.A. (MARATHI) SEMESTER: VI MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 1: Introduction to Trade Theories**	Meaning, scope and importance of International Trade- Difference between Internal and International Trade - Adam Smith's Theory of International Trade – Ricardian theory of comparative cost difference Heckscher - Ohlin Theory- Leontief's Paradox- Krugman's Model	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: VI** **MONTH: JANUARY**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: Understand the trade theories and determinants of trade which helps them to analyze the international trade policies.

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: Module 2: Balance of Trade and Balance of Payment	Concepts of Terms of Trade(Net barter, Gross barter and Income terms of trade)-Meaning and difference between Balance of Trade (BOT) and Balance of Payment (BOP)-Purchasing Power Parity theory, Law of Reciprocal Demand-Marshall-Edgeworth Offer curves, Gains from trade-Case for and against Free Trade and Protection policy	12	Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra', Success Publications. Dr. Dhamdhere S.V,'Aantarrash	PPTs, Group Discussion, Quizzes

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			riya Arthashastra', Diamond publications.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

DEPARTMENT: ECONOMICS **CLASS: T.Y.B.A. (MARATHI)** **SEMESTER: VI** **MONTH: FEBRUARY**

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

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PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 3: Foreign Exchange Market**	**Meaning and Functions of Foreign Exchange Market-Exchange rate determination, Factors influencing foreign exchange rate-Managed Flexibility-SWAP Market, Components of foreign exchange reserves Foreign Aid Vs Foreign Trade, FDI and MNCs**	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. RUPALI PRASHIL PATIL

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: understand the role of various international institutions and trade blocks and their approaches in framing the policies for trade

PAPER, UNIT, TITLE	SUBTOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO V: INTERNATIONAL ECONOMICS: **Module 4: International Economic Institutions and Economic Integration**	**IMF, World Bank - Role and functions-WTO-Objectives, Functions and Agreements with respect to TRIPS,TRIMS, GATS, AoA - Forms and objectives of Economic Integration-Cartels-Trade Blocs, ASEAN-European Union (EU)- NAFTA and SAARC.**	**12**	**Prof.Dr. Rasal Rajendra, 'Aantarrashriya Arthshastra',** Success Publications. **Dr. Dhamdhere S.V,'Aantarrashriya Arthashastra',** Diamond publications.	**PPTs, Group Discussion, Quizzes**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. Rupali Patil DEPARTMENT: ECONOMICS

CLASS: S.Y.B.A. (MARATHI) SEMESTER: III MONTH: JULY -DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING OF MACROECONOMICS AND CONCEPTS OF NATIONAL INCOME

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS I MODULE I: Introduction to	Introduction: Meaning and Scope of Macro Economics; Concepts of National Income: GNP, NNP, NDP, Per Capita Income, Personal Income and Disposal Income; Methods and Difficulties in Measurement of National Income; Circular Flow of National Income: Closed Economy (Two	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition,	Group Discussion,, PPT, QUIZ

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Macro Economics and National Income	and Three Sector) and Open Economy Models (Four Sector Model)		Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: RELATIONSHIP AMONG INCOME, CONSUMPTION, SAVINGS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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		ALLOTTED		
ECO II:MACRO ECONOMICS I MODULE II: Consumption and Investment	Consumption and Investment; Says Law of Market; Theory of Effective Demand; Consumption Function; Investment Function; Marginal Efficiency of Capital and Rate of Interest- Investment Multiplier	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12
LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: DEMAND AND SUPPLY OF MONEY

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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		ALLOTTED		
ECO II:MACRO ECONOMICS I MODULE III: Supply of Money and Demand for Money	Supply of Money; Determinants of Money Supply; Velocity of Circulation of Money; RBI's Approach to Measurement of Money Supply; Demand for Money: Classical, Keynesian and Friedman's Approaches	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: FUNCTIONS OF BANK

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECO II:MACRO ECONOMICS II: MODULE IV: Banking	Banking: Commercial Bank, Functions of Commercial Banks, Multiple Credit Creation, Balance Sheet of Commercial Bank; Development in Commercial Banking Sector Since 1990-91; Central Bank: Functions of Central Bank - Traditional, Developmental, Promotional	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory and Policy,	Group Discussion, PPT, QUIZ

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			TATA Mcgraw - Hill Publication company Ltd. Delhi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12
LEARNING OBJECTIVE/S:
THE LEARNERS WILL BE ABLE TO: MEANING , TYPES , CONCEPTS OF INFLATION

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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ECO II: MACRO ECONOMICS II MODULE I: Inflation	Module - I: Inflation The Economics of Depression, Hyper Inflation; Inflation: Features and Causes, Demand Pull Inflation and Cost Push Inflation, Effects of Inflation; Nature of Inflation in Developing Economy; Phillips Curve; Stagflation: Meaning, Causes and Consequences	12	1) N. Gregory Mankiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion,, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: MONETARY AND FISCAL POLICY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOII: MACRO ECONOMICS II MODULE II: Economic Policy	Monetary Policy: Objectives, Instruments, Limitations, Role of Monetary Policy in Developing Economies; Fiscal Policy - Objectives, Instruments, Limitations and Role of Fiscal Policy in Developing Economies	12	1) N. Gregory Mnakiw, (2015), Principle of Macroeconomics, 7th edition, Cengage Learning. 2) Abel A. B. B. S. Beranake and D. Croushore (2011), Macroeconomics, Pearson, New Delhi	Group Discussion, PPT, QUIZ

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:Post Keynesian Economics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ECOII: MACRO ECONOMICS II MODULE III: Post Keynesian Economics	The IS-LM Model of Integration of Commodity and Money Market; IS Curve: Derivation of IS Curve, Shift in IS Curve, Equilibrium in Goods Market; LM Curve: Derivation of LM Curve, Shift in LM Curve, Equilibrium in Money Market; Simultaneous Equilibrium in Goods and Money Market	12	1) Ahuja H. L., (2008), Macroeconomics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroeconomics theory	Group Discussion, PPT, QUIZ

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			and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

THE LEARNERS WILL BE ABLE TO: UNDERSTAND EXTERNAL SECTOR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

R.P.Patil

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

ECO II: MACRO ECONO MICS II: MODULE IV: External Sector	Balance of Payment: Structure, Disequilibrium in Balance of Payment, Types, Causes and Measures to Correct Balance of Payment Disequilibrium; Foreign Exchange Market: Determination of Exchange Rate: Fixed and Flexible Exchange Rate; Spot and Forward Exchange Rate; Exchange Rate Policy	12	1) Ahuja H. L., (2008), Macroecono mics theory and Policy, S. Chand and company Ltd. New Delhi. 2) Dwivedi D.N., (2007), Macroecono mics theory and Policy, TATA Mcgraw - Hill Publication company Ltd. Delhi.	Group Discussion, PPT, QUIZ

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

R.P.Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. Rupali Prashil Patil** DEPARTMENT: ECONOMICS

CLASS: SY.B.A. (MARATHI) SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: EDUCATE THE STUDENTS ABOUT THE UNIQUE POSITION OF DEMOGRAPHY AMONG VARIOUS BRANCHES OF POPULATION SCIENCE.IT ALSO THROWS LIGHT ON VARIOUS POPULATION THEORIES,MEASURES AND THE TRENDS IN GROWTH OF POPULATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

R.P.Patil

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Demograp hy **Unit-1** **Introducti on**	How demography is different from population science Applications in other disciplines Demography-Its definition, nature & Scope. It's relation with other disciplines. .	08	BhendeA.A.&TaraKanitkar(1982)–'PrinciplesofPopulationStudies'–HimalayaPublishingHouse,Bombay. Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad.	Group Discussion ,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KNOW VARIOUS THEORIES OF POPULATION & TRENDS IN GROWTH OF POPULATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

R.P.Patil

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Demography **Unit-1** **Introduction**	Theory of Population-Malthus Theory. Optimum theory of Population Theory of demographic transition. Trends in population growth-Developed Vs Developing Countries. Features of Indian Population.	08	Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad. GovernmentofIndia–(VariousReports),CensusofIndia,NewDelhi.Ahirrao‐Alizad‐Dapte‐Varat‐Bhose(2001)–'Loksankhya'–NiraliPublication,Pune.	Group Discussion ,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

LEARNING OBJECTIVE/S:

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THE LEARNERS WILL BE ABLE TO: EDUCATE THE STUDENTS ABOUT THE CONCEPT OF FERTILITY AND MORTALITY

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-3 **Basic concepts of measures**	Concept related to fertility and mortality Crude birth rate & death rate. Age specific birthrate & death rate Standardized birth rate &death rate.	08	Dr.D.D.Kachole(2001)–'Demography' –KailashaPublication,Aurangabad GovernmentofIndia–(VariousReports),CensusofIndia,NewDelh	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KNOW MEASURES OF BIRTH RATE AND DEATH RATE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Demography Unit-3 **Basic concepts of measures**	Standardize birth rate Standardize death rate Methods to rectify the errors in Age data-Whipples Index, Myers Index ,UN Method- Relative merits and demerits	08	Dr.D.D.Kachole(2001)–'Demography'–KailashaPublication,Aurangabad GovernmentofIndia–(VariousReports),CensusofIndia,NewDelh	Group Discussion,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF MORTALITY & LIFE TABLE

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-1 **Fertility,Nuptiality & Mortality**	Mortality_Concept&Factorsaffecting mortality. LifeTable-Concept Its Importance,	08	Dr. D.D.Kachole (2001) – 'Demography' – Kailasha Publication, Aurangabad. Ahirrao‐Alizad‐Dapte‐Varat‐Bhose (2001) – 'Loksankhya' – Nirali Publication, Pune.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: CONCEPT OF NUPTIALITY AND MORTALITY.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-2 **Migration Urbanization**	Nuptiality- Concept & Factors Affecting Nuptiality Mortality- Concept & factors Affecting Mortality	08	.Dr. D.D.Kachole (2001) – ‘Demography’ – Kailasha Publication, Aurangabad. Ahirrao-Alizad-Dapte-Varat-Bhose (2001) – ‘Loksankhya’ – Nirali Publication, Pune.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: KNOW CONCEPT OF MIGRATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-2 **Migration Urbanization**	Migration-Concept Types FactorsaffectingMigration TheoryofMigration(Harris&TodaroModel) Issues Related To Migration	10	Dr. D.D.Kachole (2001) – ‘Demography’ – Kailasha Publication, Aurangabad. Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan', Shree Mangesh Prakashan, Nagpur.	Group Discussion, PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

R.P.Patil

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LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO:

URBANIZATION AND PROBLEMS OF URBANIZATION IN INDIA.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Demography Unit-3	Urbanization_Concept,Trends pattern of Urbanization in India. Problems ofUrbanizationinIndia.(Poverty,Goods Supply,Water,Sanitation,housing,Slimarea,Employment,health,education,transport,environmental degradation	06	Dr. D.D.Kachole (2001) – ‘Demography’ – Kailasha Publication, Aurangabad. Dr.Kavimandan Vijay,'Vikasache Arthashastra va Niyojan', Shree Mangesh Prakashan, Nagpur.	Group Discussion,PPT, Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

R.P.Patil

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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: ARTS CLASS: SYBA

SEMESTER: III MONTH: June to August History Paper: III ACADEMIC YEAR 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To enable the students to think critically, understand their past and develop interest in historical matters.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ancient India Module 1 Sources of Ancient India and their importance.	a. Archaeological b. Literary c. Foreign travellers	12	Dr. Eugene D'Souza: Ancient India	Explanation with illustrations Story Narration Discussion method

Mala

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Module 2 Indus Valley Civilization.	a. Social and economic life b. Religious life	10	A.L Bhasham: Wonder that was India.	Explanation with illustrations Story Narration Discussion method
	ALLOCATED TO THE UNITS 22			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Ms.Mala Khanchandani DEPARTMENT: Arts CLASS: T,Y.B.A SEMESTER: V

MONTH: June to August HISTORY PAPER VI ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To analyze archaeological artifacts as a source of information about other cultures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 Aims and methods of archaeology	A. Definition, aims and development of archaeology in India. B. Archaeology and History, archaeology and other sciences. C. Field archaeology; Methods of exploration, excavation	10	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	Explanation with illustrations Story Narration Discussion method
	ALLOCATED TO THE UNIT: 10			

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Janhavi Naik

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchadani DEPARTMENT: Arts CLASS: S.Y.B.A SEMESTER: IV

MONTH: January to March ACADEMIC YEAR: 2022-2023 History Paper II

LEARNING OBJECTIVE/S:
The learners will be able to :

To enable the students to understand the political, socio-economic, and cultural development of ancient period and to appreciate the rich cultural heritage of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Inter war Period	A. Kemal Pasha & Modernization of Turkey B. Reza Shah & Reforms in Iran C. Birth of Israel	8	Dr. Eugene D Souza	❖ Explanation with examples
Module 2 Rise of Dictatorships	A. Fascism B. Nazism C. Militarism in Japan	7	Dr. Eugene D Souza	❖ Explanation with examples
	A. World War II B. The Atlantic Charter	6	Dr. Eugene D Souza	❖ Explanation with examples

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Module 3 World War II & Efforts for Peace	C. United Nations Organization			
Module 4 Major Dynasties of Deccan and South India	A. Dr. Sun-Yat-Sen and China B. Mahatma Gandhi and India C. Dr. Sukarno and Indonesia	6	Dr. Eugene D Souza	❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchadani DEPARTMENT: Arts CLASS: S.Y.B.A SEMESTER: IV

MONTH: January to March HISTORY PAPER III ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To enable the students to understand the political, socio-economic, and cultural development of ancient period and to appreciate the rich cultural heritage of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Ancienr India Module 1 Mauryan and post mauryan period	A. Chandragupta and Ashoka B. Mauryan Administration C. Post Mauryan Dynasties- Sungas, Kushana and Satavahans.	8	Dr. Eugene D’Souza: Ancient India	❖ Explanation with examples
Module 2 Gupta Age	A. Imperial Expansion: Chandragupta 1, Samudragupta and Chandragupta II. B. Administration C. Classical Age	7	A.L Bhasham: Wonder that was India.	❖ Explanation with examples

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Module 3 Post Gupta period	A. The age of Harshvardhan B. The rise of Rajputs C. Arab Invasion of Sind	6	A.L Bhasham: Wonder that was India.	❖ Explanation with examples
Module 4 Major Dynasties of Deccan and South India	A. Chalukyas of Badami and Rashtrakutas B. Pallavas and Cholas C. Spread of Indian Culture in South East Asia	6	A.L Bhasham: Wonder that was India.	❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Arts CLASS: T.Y.B.A SEMESTER: VI

MONTH: January to March HISTORY PAPER VI ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To take up the responsibility for preserving an object or heritage and making it accessible.

To survey, acquire and scientifically preserve records of historical values from autonomous bodies, private institutions and individuals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Museology and Archival Science Module 1 Museology	i) Definition of Museology, museum movement in India. ii) Role of curator iii) Types of Museums	8	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 2 Museums	i) Methods of collection and conservation of objects in museums. ii) Preservation techniques and types of exhibitions. iii) Changing roles of museums: In-house and out-	7	Dr. Ranade Dr. Samel Dr. Nabar:	❖ Discussion ❖ Explanation with examples

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	reach activities of museums.		Introduction to Archaeology	
Module 3 Archival Science	i) Meaning, scope, objectives and classes of archives. ii) Importance of archives : Value of record as a source of history. iii) Classification of records	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 4 Management of Archives	i) Appraisal and retention of records. ii) Conservation and preservation of records. iii) Digital archives	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples ❖

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mala Khanchandani DEPARTMENT: Arts CLASS: T.Y.B.A SEMESTER: VI

MONTH: January to March HISTORY PAPER VI ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To take up the responsibility for preserving an object or heritage and making it accessible.

To survey, acquire and scientifically preserve records of historical values from autonomous bodies, private institutions and individuals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Museology and Archival Science Module 1 Museology	i) Definition of Museology, museum movement in India. ii) Role of curator iii) Types of Museums	8	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 2 Museums	i) Methods of collection and conservation of objects in museums. ii) Preservation techniques and types of exhibitions. iii) Changing roles of museums: In-house and out-	7	Dr. Ranade Dr. Samel Dr. Nabar:	❖ Discussion ❖ Explanation with examples

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	reach activities of museums.		Introduction to Archaeology	
Module 3 Archival Science	i) Meaning, scope, objectives and classes of archives. ii) Importance of archives : Value of record as a source of history. iii) Classification of records	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples
Module 4 Management of Archives	i) Appraisal and retention of records. ii) Conservation and preservation of records. iii) Digital archives	6	Dr. Ranade Dr. Samel Dr. Nabar: Introduction to Archaeology	❖ Discussion ❖ Explanation with examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:** GROWTH OF POLITICAL AWAKENING	(A) Revolt of 1857- Causes & Consequences	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	(B) Contribution of Political Associations	04		
	(C) Foundation of Indian National Congress	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

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Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh Swtantra Bhartacha Itihas	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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			Dr.Suman Vaidya & Dr. Shanta Kothekar	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-A)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023 b**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA’S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:**	(A) Revolt of 1857- Causes & Consequences	04	**Modern India** By Dr. Eugene	Google Meet, Google Classroom,
	(B) Contribution of Political Associations	04		

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GROWTH OF POLITICAL AWAKENING	(C) Foundation of Indian National Congress	04	D’Souza	PPT Presented Online Map, You Tube Video.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	**Modern India** By Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	Modern India **Modern India** By Dr. Eugene D’Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

Janhavi Naik

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Janhavi Naik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-B)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA **MODULE I:** GROWTH OF POLITICAL AWAKENING	(A) Revolt of 1857- Causes & Consequences	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	(B) Contribution of Political Associations	04		
	(C) Foundation of Indian National Congress	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Janhavi Naik

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MODULE II: TRENDS IN INDIAN NATIONALISM	Moderates	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Extremists	04		
	Revolutionary Nationalist	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODUL III: GANDHIAN MOVEMENTS	Non Co-operation Movement	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Civil Disobedience Movement	04		
	Quit India Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

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Late Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(ENGLISH DIV-B)**

SEMESTER: I MONTH: **NOVEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE STRUGGLE FOR INDIA'S INDEPENDENCE**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :IV THE INDIAN CONSTITUTION	The Constitution as set out in the Preamble	03	**FOUNDATION COURSE I Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare**	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	The Structure of the Constitution	03		
	Fundamental Duties of the Indian Citizen	02		

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	Basic Feature of the Constitution	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT :V SIGNIFICANT ASPECTS OF POLITICAL PROCESSES	The Party System in India Politics	03	**FOUNDATION COURSE I Payabhut Abhyas-Prof S.S.Liman,Prof S.J.Vaghmare**	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Local Self Government in Urban Rural Areas	03		
	The 73rd and 74th Amendments and Their Implication for Inclusive Politic	02		
	Role and Significance of Women in Politics	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10 LECTURE

TEACHING PLAN (UNIT PLAN)

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(DIV- A) SEMESTER: III**

MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD MODULE I: SOURCES OF ANCIENT INDIA AND THEIR IMPORTANCE	Archaeological	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Literary	04		
	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: VEDIC AGE	Janapada	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
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Vidhya Dayanand Patil College of Arts
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NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6^{TH} CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(DIV- B)** **SEMESTER: III**

MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD MODULE I: SOURCES OF ANCIENT INDIA AND THEIR IMPORTANCE	Archaeological	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Literary	04		
	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: VEDIC AGE	Janapada	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6TH CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Dr. Eugene D’Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Ms. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA- ENGLISH**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I: AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

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Late Shri. Vishnu Waman Thakur Charitable Trust
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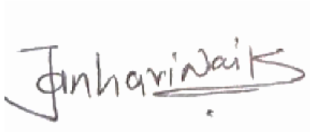
TITLE		LECTURES ALLOTTED		TOOLS USED
MODULE II: PRE-HISTORIC, PROTO-HISTORIC AND EARLY HISTORICAL PERIODS	Palaeolithic and Mesolithic Periods	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF



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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Dr. Eugene D'Souza: Ancient India	Online Lectures on Google meet Google Slides Google Classroom Online Projects assigned and assessment Explanation with illustrations Story Narration Discussion method
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		
	Contribution of Numismatics to Indian History	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: **MS. JANHAVI NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: VI MONTH: **JANUARY TO MARCH** ACADEMIC YEAR 2022 **- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THEMSELVES WITH THE HISTORY OF INDIA SINCE THE EMERGENCE OF THE MUGHAL RULE. TO UNDERSTAND ADMINISTRATION OF THE MUGHAL EMPIRE. TO STUDY THE RISE OF THE MARATHA POWER**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA MODULE I: FOUNDATION EXPANSION & DECLINE OF MUGHAL RULE	• India on the Eve of Mughal Rule: • Invasion of Babur	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Humayun • Sher Shah • Akbar	04		
	• Jehangir • ShahJahan • Aurangzeb	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE MUGHALS	• Central Administration • Provincial Administration	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Mansabdari System •	04		
	• Judicial System • Revenue System	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: RISE OF THE MARATHA POWER	• Shivaji & Foundation of Swarajya	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Administration of Shivaji •	04		
	• Sambhaji • Raja ram • Tarabai	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	• Society • Economy	04	Medieval India 1526 CE to 1707CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Religion • Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: I**MS. JANHAVI NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: VI MONTH: **JANUARY TO MARCH** ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE PROCESS OF MAKING THE CONSTITUTION AND THE INTEGRATION AND REORGANIZATION OF INDIAN STATES. TO ACQUAINT THE STUDENTS WITH THE POLITICAL DEVELOPMENTS IN INDIA AFTER INDEPENDENCE. TO COMPREHEND THE SOCIO-ECONOMIC CHANGES AND PROGRESS IN SCIENCE AND TECHNOLOGY IN INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: : HISTORY OF CONTEMPORARY INDIA MODULE I:	Features Of The Indian Constitution	04	History Of Contemporary India (1947-2000)	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p,
	• Integration of States • Reorganisation of States	04		

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THE NEHRU ERA 1947-1964			By Dr. Eugene D'souza	You Tube Video.
	• Socio-economic reforms • Foreign policy	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1964-1984	• Political Developments After Nehru • Green Revolution	04	History Of Contemporary India (1947-2000) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	• Abolition of Privy Purses • Nationalisation of Banks • Emergence	04		
	• Janata Government • Return of Congress	04		

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	• Foreign Policy			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1984-2000	• Political Developments	04	History Of Contemporary India (1947-2000) By Dr. Eugene D’souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	• Relations with Foreign Countries •	04		
	• Globalisation	04		

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	• Liberalisation • Privatisation			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGING TRENDS	• Communalism • Separatists Movements	04	History Of Contemporary India (1947-2000) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizizz, h5p, You Tube Video.
	• Empowerment of Women • Policy of Reservation	04		
	• Science • Technology • Education	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: : **DR. DIPALI CHPUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(MARATHI)**

SEMESTER: III MONTH: **SEPTEMBER TO DECEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: **ANCIENT India** **EARLIEST TIMES TO 1000AD** **MODULE I:** SOURCES OF ANCIENT INDIA AND THEIR	Archaeological	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh Prachin Bharat-Dr. S.G.Kolalkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Literary	04		
	Foreign Travellers	04		

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IMPORTANCE				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATION	Social and Economic Life	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MODULE III: VEDIC AGE	Janapada	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video You Tube Video
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6^{TH} CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Prachin Bharatacha Ithihas – Prof. Jitendra Bhamreh	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

		ALLOTTED		
HISTORY IV: MEDIEVAL INDIA **MODULE I:** **FOUNDATION EXPANSION & DECLINE OF DELHI SULTANATE**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Rise and Decline of Slave Dynasty • Khilji Dynasty	04		
	• Tughlaq Dynasty • Sayyid Dynasty • Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	• Central Administration • Iqta System	04	Madhya Yugin Bharat	

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MODULE II: **ADMINISTRATIVE STRUCTURE OF THE SULTANATE**	• Administrative & Military Reforms of Alauddin Khilji	04	By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Reforms of Firoz Shah Tughlaq • Reforms of Mohammad Bin Tughlaq	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: **EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS**	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	Socio-Economic & Religious Life	04	Madhya Yugin Bharat By S G Kolarkar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	• Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA MARATHI**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF MODERN MAHARASHTRA	Socio-Economic Conditions in Maharashtra in the 19th Century	04	Adhunik Maharashtra	Google Meet, Google Classroom, PPT Presented
	• Administration	04		

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MODULE I: **BEGINNING OF BRITISH RULE**	• Judiciary		By Prakash Javdadekar	Online Map, You Tube Video
	• Tribal Uprisings • Peasant Movements	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
MODULE II: **SOCIO-ECONOMIC AWAKENING**	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04	Adhunik Maharashtra By Prakash Javdadekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: POLITICAL DEVELOPMENTS IN	• Moderates • Extremists • Revolutionary Nationalists	04	Adhunik Maharashtra By	Google Meet, Google Classroom, PPT Presented
	Response to Gandhian Movements in Maharashtra	04		

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MAHARASHTRA 1885-1960	Samyukta Maharshtra Movement	04	Prakash Javdadekar	Online Map, You Tube Video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Contribution of reformers towards Education	04		

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MODULE IV: **EMERGENCE OF NEW FORCES**	Contribution of Reformers towards Women's Education	04	Adhunik Maharashtra By Prakash Javdadekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA MARATHI**

SEMESTER: V MONTH: **AUGUST TO DECEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I:** **AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: **PRE-HISTORIC, PROTO-HISTORIC AND EARLY HISTORICAL PERIODS**	Palaeolithic and Mesolithic Periods	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar ar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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Janhavi Naik

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Puratav Shastra Va Vastusangrahlay By	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		
	Contribution of Numismatics to Indian History	04		

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Janhavi Naik

SIGNATURE OF THE H.O.D.

			Samel, Nabar	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: IV** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2022-23**

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LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: LANDMARKS IN WORLD HISTORY **MODULE I:** INTER WAR PERIOD	Kemal Pasha & Modernisation of Turkey	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Reza Shah Pahlavi & Reforms in Iran	04		
	Birth of Israel	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: RISE OF	Fascism & Benito Mussolini	04	Adhunik Jag By	1. Chalk & Duster

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DICTATORSHIP	Nazism & Adolf Hitler	04	Joshi P J S.G Kolarkar	
	Militarism in Japan	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: WORLD WAR II	World War II Cause, Effects & Consequences	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Atlantic Charter	04		
	United Nations Organisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIV: NATIONALIST S MOVEMENTS IN ASIA	Dr. Sun Yat Sen & China	04	Adhunik Jag By Joshi P J S.G Kolarkar	1. Chalk & Duster
	Mahatma Gandhi & India	04		
	Dr. Sukarno & Indonesia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTUR

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR.DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: III** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY III: ANCIENT India EARLIEST TIMES TO 1000AD **MODULE I:** SOURCES OF	Archaeological	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Literary	04		

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ANCIENT INDIA AND THEIR IMPORTANCE	Foreign Travelers	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURE

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: INDUS VALLEY CIVILIZATIO N	Social and Economic Life	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Religious Life	04		
	Town Planning and Decline of the Civilization	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MODULE III: VEDIC AGE	Janapada	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Social and Economic Life	04		
	Religion	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: INDIA AFTER 6^{TH} CENTURY BC	Administration of Mahajanapadas Century B.C.	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Jainism and Buddhism	04		
	Persian and Greek Invasions	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA** **SEMESTER: IV** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THE STUDENTS WITH DIFFERENT SOURCES OF ANCIENT INDIAN HISTORY.TO ENABLE THE STUDENTS TO UNDERSTAND THE POLITICAL, SOCIO-ECONOMIC AND**

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CULTURAL DEVELOPMENTS IN THE PERIOD UNDER STUDY AND APPRECIATE THE RICH CULTURAL HERITAGE IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: ANCIENT India EARLIEST TIMES TO 1000AD **MODULE I:** MAURYAN AND POST-MAURYAN PERIOD (322 B.C. TO 320 A.D.)	Chandragupta and Ashoka	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Mauryan Administration	04		
	Post Mauryan Dynasties- Sungas, Kushanas and Satavahanas	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

MODULE II: GUPTA AGE (320 A.D. TO 600 A.D.)	Imperial Expansion: Chandragupta I, Samudragupta and Chandragupta II	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Administration	04		
	Classical Age	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: :POST GUPTA PERIOD (600A.D. TO 1000A.D.)	The Age of Harshavardhan	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	The Rise of Rajputs	04		
	Arab Invasion of Sind	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIV: MAJOR DYNASTIES OF DECCAN AND SOUTH INDIA	Chalukyas of Badami and Rashtrakutas	04	Prachin Bharatacha Ithihas By N C Dikshit	1. Chalk & Duster
	Mahatma Gandhi & Ind Pallavas and Cholas ia	04		
	Spread of Indian Culture in South-East Asia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA **MODULE I: FOUNDATION**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Rise and Decline of Slave Dynasty · Khilji Dynasty	04		

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EXPANSION & DECLINE OF DELHI SULTANATE	· Tughlaq Dynasty · Sayyid Dynasty · Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE SULTANATE	· Central Administration · Iqta System	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Administrative & Military Reforms of Alauddin Khilji	04		
	· Reforms of Firoz Shah Tughlaq · Reforms of Mohammad Bin Tughlaq	04		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII : EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	Socio-Economic & Religious Life	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Education · Literature	04		
	· Art · Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT THEMSELVES WITH THE HISTORY OF INDIA SINCE THE EMERGENCE OF THE MUGHAL RULE. TO UNDERSTAND ADMINISTRATION OF THE MUGHAL EMPIRE. TO STUDY THE RISE OF THE MARATHA POWER**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY IV: MEDIEVAL INDIA **MODULE I: FOUNDATION EXPANSION & DECLINE OF MUGHAL RULE**	· India on the Eve of Mughal Rule: · Invasion of Babur	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Humayun · Sher Shah · Akbar	04		
	· Jehangir · ShahJahan · Aurangzeb	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: ADMINISTRATIVE STRUCTURE OF THE MUGHALS	· Central Administration · Provincial Administration	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Mansabdari System ·	04		
	· Judicial System · Revenue System	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII : RISE OF THE MARATHA POWER	· Shivaji & Foundation of Swarajya	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Administration of Shivaji ·	04		
	· Sambhaji · Raja ram · Tarabai	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: SOCIETY, ECONOMY, RELIGION & CULTURE	· Society · Economy	04	Madhya Yugin Bharat By S G Kolarkar	1. Chalk & Duster
	· Religion · Education · Literature	04		
	· Art · Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR: **2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF MODERN MAHARASHTRA **MODULE I: BEGINNING OF BRITISH RULE**	Socio-Economic Conditions in Maharashtra in the 19th Century	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	· Administration · Judiciary	04		
	· Tribal Uprisings · Peasant Movements	04		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: SOCIO ECONOMIC AWAKENING	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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MODULEIII: POLITICAL DEVELOPMENTS IN MAHARASHTRA 1885-1960	· Moderates · Extremists · Revolutionary Nationalists	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Response to Gandhian Movements in Maharashtra	04		
	Samyukta Maharshtra Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGENCE OF NEW FORCES	Contribution of reformers towards Education	04	Adhunik Maharashtra By Prakash Javdadekar	1. Chalk & Duster
	Contribution of Reformers towards Women's Education	04		
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE PROCESS OF MAKING THE CONSTITUTION AND THE INTEGRATION AND REORGANIZATION OF INDIAN STATES. TO ACQUAINT THE STUDENTS WITH THE POLITICAL DEVELOPMENTS IN INDIA AFTER INDEPENDENCE. TO COMPREHEND THE SOCIO-ECONOMIC CHANGES AND PROGRESS IN SCIENCE AND TECHNOLOGY IN INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: : HISTORY OF CONTEMPORARY INDIA **MODULE I: THE NEHRU ERA 1947-1964**	Features Of The Indian Constitution	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Integration of States · Reorganisation of States	04		
	· Socio-economic reforms · Foreign policy	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1964-1984	· Political Developments After Nehru · Green Revolution	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Abolition of Privy Purses · Nationalisation of Banks · Emergence	04		
	· Janata Government · Return of Congress	04		

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	· Foreign Policy			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: POLITICAL ECONOMIC SOCIAL DEVELOPMENTS 1984-2000	· Political Developments	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Relations with Foreign Countries	04		
	· Globalisation · Liberalisation · Privatisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGING TRENDS	· Communalism · Seperatists Movements	04	Adhunik Bharat By Suman Vaidhya	1. Chalk & Duster
	· Empowerment of Women · Policy of Reservation	04		
	· Science · Technology · Education	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR. DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: V** MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE BASIC FACETS OF ARCHAEOLOGY. TO EVALUATE THE IMPORTANCE OF EPIGRAPHY. TO STUDY THE IMPORTANCE OF NUMISMATICS AS AN IMPORTANT SOURCE OF HISTORY.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: INTRODUCTION TO ARCHAEOLOGY **MODULE I: AIMS AND METHODS OF ARCHAEOLOGY**	Definition, Aims and Development of Archaeology in India	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Archaeology and History; Archaeology and Other Sciences	04		
	Field Archaeology: Methods of Exploration, Excavation and Dating Antiquities; Significance of Archaeology	04		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: PRE HISTORIC, PROTO HISTORIC AND EARLY HISTORICA L PERIODS	Palaeolithic and Mesolithic Periods	04	Puratav Shastra Va Vastusangrahl ay By Samel, Nabar ar	1. Chalk & Duster
	Neolithic and Chalcolithic Periods	04		
	Megalithic and Early Historical Periods	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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TITLE				
MODULEI II: EPIGRAPHY	Definition and History of Indian Epigraphy	04	Puratav Shastra Va Vastusangrahalay By Samel, Nabar	1. Chalk & Duster
	Types of Inscriptions and their significance	04		
	Evolution of Brahmi and Kharosthi Scripts; Edicts of Ashoka	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NUMISMATICS	Definition and History of Indian Numismatics	04	Puratav Shastra Va Vastusangrahalay By Samel, Nabar	1. Chalk & Duster
	Ancient Indian Coinage: Punch-Marked, Satavahana, Western Kshatrapas, Kushana and Gupta Coins	04		

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	Contribution of Numismatics to Indian History	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DR DIPALI CHOUDHARY** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA** **SEMESTER: VI** MONTH: **NOVEMBER TO FEBRUARY** ACADEMIC YEAR:**2018- 2019**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE TO INFORM THE STUDENTS ABOUT THE ROLE OF MUSEUMS IN THE PRESERVATION OF HERITAGE. TO UNDERSTAND THE IMPORTANCE OF ARCHIVAL SCIENCE IN THE STUDY OF HISTORY. TO ENCOURAGE STUDENTS TO PURSUE CAREERS IN VARIOUS MUSEUMS AND ARCHIVES IN INDIA AND ABROAD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY VI: : INTRODUCTION TO	Definition of Museology, Museum Movement in India	04	Puratav Shastra Va Vastusangrahl	1. Chalk & Duster

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MUSEOLOGY AND ARCHIVAL SCIENCE **MODULE I: MUSEOLOGY**	Role of the Curator	04	ay By Samel, Nabar	
	Types of Museums	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: MUSEUMS	Methods of Collection and Conservation of Objects in Museums	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Preservation Techniques and Types of Exhibitions	04		
	Changing Role of Museums: In-house and Out-reach activities of Museums	04		

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEI II: ARCHIVAL SCIENCE	Meaning, Scope, Objectives and Classes of Archives	04	Puratav Shastra Va Vastusangrahalay By Samel, Nabar	1. Chalk & Duster
	Importance of Archives: Value of Records as Sources of History	04		
	Classification of Records	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: MANAGEMENT OF ARCHIVES	Appraisal and Retention of Records (b) (c)	04	Puratav Shastra Va Vastusangrahlay By Samel, Nabar	1. Chalk & Duster
	Conservation and Preservation of Records	04		
	Digital Archives	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH)** A & B

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO GET A BRIEF OVERVIEW OF THE IMPORTANT ASPECTS OF THE GLOBAL SOCIETY**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FOUNDATION COURSE III **UNIT : I** HUMAN RIGHTS	Scheduled Castes – Constitutional & Legal Rights, Violations& Redressal Mechanisms	02	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Sheduled Tribes– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		
	Women– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		
	Children– Constitutional & Legal Rights, Violations& Redressal Mechanisms	02		

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VIOLATIONS & REDRESSAL	Disabilities Minorities, Elderly Persons– Constitutional & Legal Rights, Violations& Redressal Mechanisms	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT: II DEALING WITH ENVIRONMENTAL CONCERNS	Concept Of Disasters And General Effects Of Disasters On Human Life	03	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Local Case Studies Of Environmental Disasters	02		
	Dealing With Disasters: Prevention, Mitigation, Disaster Preparedness	03		
	Human Rights Issues And Violations In Addressing Disasters	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT: III SCIENCE & TECHNOLOGY I	Development Of Science: Ancient Culture, Classical Era, Middle Ages, Renaissance, Age Of Enlightment	03	**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	Nature Of Science: Principles, Characteristics, Theories & Practical's	02		
	Science & Superstition: Exploding Myths, Blind Beliefs, Prejudices. Building Scientific Temper	03		
	Science In Everyday Life : Science & Technology Inter	03		

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	Relation And Distinction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV:	PART A: • Verbal And Non Verbal Communication	03		Google Meet,

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SOFT SKILLS FOR INTERPERSONAL COMMUNICATION	• Listening Skills • Barriers In Effective Communication • Importance Of Body Language		**FOUNDATION COURSE III** BY MICHEAL VAS & AURORA VAZ	Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video.
	PART B: • Formal & Informal Communication • Writing Skills • Group Discussions • Interviews • Presentations:	04		
	PART C : • Leadership Skills • Self Improvement Skills • Team Building	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11 LECTURES

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NAME OF THE STAFF: **MS.QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH) A & B**

SEMESTER: III MONTH: **JULY TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: **LANDMARKS IN WORLD HISTORY** **MODULE I:** THE MODERN AGE	Renaissance, Art, Architecture, Science & Literature	04	Landmarks In World History By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Geographical Discoveries, Vasco Da Gama, Christopher Columbus	04		
	Reformation & Counter Reformation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: AGE OF REVOLUTIONS	American Revolution	04	Landmarks In World History By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	French Revolution	04		
	Industrial Revolution	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: NATIONALISM & IMPERIALISM	Formation of Nation States in Europe	04		Google Meet, Google Classroom,
	Nationalist Movements in Italy & Germany	04		

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	Imperialist Expansion in Asia	04	Landmarks In World History By Dr. Eugene D'souza	PPT Presented Quizzizz, h5p, You Tube Video You Tube Video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: WORLD IN TRANSITION	World War I	04	Landmarks In World History By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Russian Revolution	04		
	League of Nations	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: V MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH THE HISTORY OF EARLY MEDIEVAL INDIA THAT LAID THE FOUNDATION OF THE SULTANATE IN INDIA. TO STUDY THE CONTRIBUTION OF VIJAYNAGAR AND BAHAMANI KINGDOMS TO MEDIEVAL INDIAN HISTORY. AND TO EXAMINE THE ADMINISTRATIVE, SOCIO-ECONOMIC AND CULTURAL ASPECTS OF MEDIEVAL INDIA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

		ALLOTED		
HISTORY IV: MEDIEVAL INDIA **MODULE I:** **FOUNDATION EXPANSION & DECLINE OF DELHI SULTANATE**	Socio-Economic & Political conditions on the eve of Turkish Invasions	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Rise and Decline of Slave Dynasty • Khilji Dynasty	04		
	• Tughlaq Dynasty • Sayyid Dynasty • Lodi Dynasty	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

MODULE II: **ADMINISTRATIVE STRUCTURE OF THE SULTANATE**	• Central Administration • Iqta System	04	Medieval India 1000CE to 1526CE By Dr. Eugene D’souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Administrative & Military Reforms of Alauddin Khilji	04		
	• Reforms of Firoz Shah Tughlaq • Reforms of Mohammad Bin Tughlaq	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULEIII: EMERGENCE OF THE VIJAYNAGAR & BAHAMANI KINGDOMS	Rise, Growth & Decline of the Vijaynagar Empire & Bahamani Kingdom	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Administrative Socio-Economic & Cultural Conditions of the Vijaynagar Empire	04		
	Administrative Socio-Economic & Cultural Conditions of the Bahamani Kingdom	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: **SOCIETY, ECONOMY, RELIGION & CULTURE**	Socio-Economic & Religious Life	04	Medieval India 1000CE to 1526CE By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Education • Literature	04		
	• Art • Architecture	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **QUDASIYA SAYED** DEPARTMENT: **HISTORY/ ARTS** CLASS: **TYBA ENGLISH**

SEMESTER: V MONTH: **JUNE TO SEPTEMBER** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO ACQUAINT WITH REGIONAL HISTORY OF MAHARASHTRA TO UNDERSTAND POLITICAL AND SOCIO-ECONOMIC DEVELOPMENTS DURING THE 19TH AND 20TH CENTURIES TO CREATE UNDERSTANDING OF THE MOVEMENT THAT LED TO THE FORMATION OF MAHARASHTRA.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY V: HISTORY OF	Socio-Economic Conditions in Maharashtra in the 19th Century	04		

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

MODERN MAHARASHTRA **MODULE I:** **BEGINNING OF BRITISH RULE**			History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	• Administration • Judiciary	04		
	• Tribal Uprisings • Peasant Movements	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Mahatma Jyotirao Phule - Sathyashodak Samaj & Universal Humanism	04		

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

MODULE II: **SOCIO-ECONOMIC AWAKENING**			History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D’souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Prarthana Samaj	04		
	Contribution of thinkers of Maharashtra to Economic Nationalism	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

MODULEIII: **POLITICAL DEVELOPMENTS IN MAHARASHTRA** **1885-1960**	• Moderates • Extremists • Revolutionary Nationalists	04	History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Response to Gandhian Movements in Maharashtra	04		
	Samyukta Maharshtra Movement	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janharinaik

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: EMERGENCE OF NEW FORCES	Contribution of reformers towards Education	04	History Of Modern Maharashtra (1818CE – 1960CE) By Dr. Eugene D'souza	Google Meet, Google Classroom, PPT Presented Quizzizz, h5p, You Tube Video
	Contribution of Reformers towards Women's Education	04		
	Contribution of Reformers to the Upliftment of the Depressed Classes	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA(MARATHI) DIV-A**

SEMESTER: II MONTH: **FEBRUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY MODULE IV: NATIONALISM & SOCIAL GROUPS	Women	04	Modern India Aadhunik Bhartacha Itihas Prof. Jitendra Bhamreh Swtantra Bhartacha Itihas Dr.Suman Vaidya & Dr. Shanta Kothekar	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Dalit	04		
	Peasant	02		
	Tribals	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA (ENGLISH) DIV -B**

SEMESTER: II MONTH: **FEBRUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY **MODULE I:** SOCIO-RELIGIOUS REFOEM MOVEMENT	Brahmo Samaj, Arya Samaj, Ramkrishna Mission	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Sathyashodak Samaj, Aligarh Movement, Singh Sabha	04		
	Impact of Reform movements on Indian Society	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: EDUCATION, PRESS & TRANSPORT	Introduction to Western Education & its Impact	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Development Of Press	04		
	Transport & Communication	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: IMPACT OF BRITISH RULE ON INDIAN ECONOMY	Revenue Settlements & Commercialisation of Agriculture	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Drain Theory	04		
	Deindustrialisation & Growth of Large Scale Industries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Jinharinaik

SIGNATURE OF THE STAFF

Jinharinaik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISM AND SOCIAL GROUPS: INTERFACES	WOMEN	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	DALITS	04		
	PEASANTS AND TRIBALS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: **MS.JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **FYBA (ENGLISH) DIV- C**

SEMESTER: II MONTH: **FEBRUARY TO APRIL**

ACADEMIC YEAR:**2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO UNDERSTAND THE MAKINGS OF MODERN INDIA AND THE SOCIO-ECONOMIC IMPACT OF BRITISH RULE ON INDIA**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY I: MODERN INDIA: SOCIETY & ECONOMY **MODULE I:** SOCIO-RELIGIOUS REFOEM MOVEMENT	Brahmo Samaj, Arya Samaj, Ramkrishna Mission	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Sathyashodak Samaj, Aligarh Movement, Singh Sabha	04		
	Impact of Reform movements on Indian Society	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Shri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TITLE		LECTURES ALLOTED		TOOLS USED
MODULE II: EDUCATION, PRESS & TRANSPORT	Introduction to Western Education & its Impact	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Development Of Press	04		
	Transport & Communication	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: IMPACT OF BRITISH RULE ON INDIAN ECONOMY	Revenue Settlements & Commercialisation of Agriculture	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Drain Theory	04		
	Deindustrialisation & Growth of Large Scale Industries	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISM AND SOCIAL GROUPS: INTERFACES	WOMEN	04	**Modern India** By Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	DALITS	04		
	PEASANTS AND TRIBALS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: : **MS. JANHAVI PRAFULL NAIK** DEPARTMENT: **HISTORY/ ARTS** CLASS: **SYBA(ENGLISH) SEMESTER: IV**

MONTH: **JANUARY TO APRIL** ACADEMIC YEAR: **2022- 2023**

LEARNING OBJECTIVE/S: **THE LEARNERS WILL BE ABLE TO COMPREHEND THE TRANSITION OF EUROPE FROM MEDIEVAL TO MODERN TIMES AND ITS IMPACT ON THE WORLD. TO PROVIDE ACCURATE KNOWLEDGE OF THE MOST SIGNIFICANT EVENTS & PERSONALITIES OF THE PERIOD UNDER STUDY AND ENCOURAGE OF THE MAKING OF THE MODERN WORLD**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HISTORY II: LANDMARKS IN WORLD HISTORY **MODULE I:** INTER WAR PERIOD	Kemal Pasha & Modernisation of Turkey	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Reza Shah Pahlavi & Reforms in Iran	04		
	Birth of Israel	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janhavi Naik

SIGNATURE OF THE STAFF

Janhavi Naik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE II: RISE OF DICTATORSHIP	Fascism & Benito Mussolini	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Nazism & Adolf Hitler	04		
	Militarism in Japan	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE III: WORLD WAR II	World War II Cause, Effects & Consequences	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Atlantic Charter	04		
	United Nations Organisation	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Janharinaik

SIGNATURE OF THE STAFF

Janharinaik

SIGNATURE OF THE H.O.D.

Shri. Vishnu Waman Thakur Charitable Trust
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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MODULE IV: NATIONALISTS MOVEMENTS IN ASIA	Dr. Sun Yat Sen & China	04	Dr. Eugene D'Souza	Google Meet, Google Classroom, PPT Presented Online Map, You Tube Video.
	Mahatma Gandhi & India	04		
	Dr. Sukarno & Indonesia	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12 LECTURES

Jinharinaik

SIGNATURE OF THE STAFF

Jinharinaik

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
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NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF Dr.ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH: NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. **THE** CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06________

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

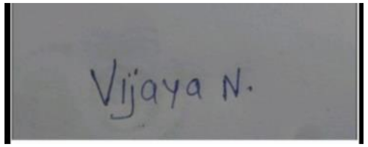
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04_____ **TEACHING PLAN (UNIT PLAN)**



SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust's

Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)

TEACHING PLAN UNIT PLAN PSYCHOLOGY 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the important researchers and their contributions to the field of Psychology. The learner will be able to get an insight on different viewpoints in Psychology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 1**	**THE HISTORY OF PSYCHOLOGY** - Wundt, Introspection, Laboratory. - Titchner, structuralism. - James, Functionalism.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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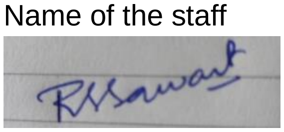
Name of the staff



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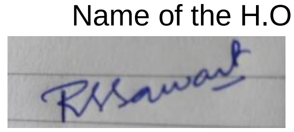

TITLE: THE SCIENCE OF PSYCHOLOGY	- Gestalt -Freud, psychoanalysis. -Watson, Behaviourism.			
	THE FIELDS OF PSYCHOLOGY TODAY - Psychodynamic perspective - Behavioural perspective - Humanistic perspective - Bio - psychological perspective - Cognitive perspective - Sociology - cultural perspective - Evolutionary perspective	03	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	SCIENTIFIC RESEARCH - scientific methods - descriptive methods - finding relationship - qualitative methods	03	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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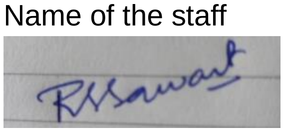

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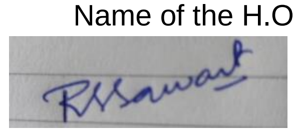

	ETHICS OF PSYCHOLOGICAL RESEARCH - guidelines for doing research with people.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Astrology	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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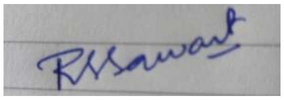

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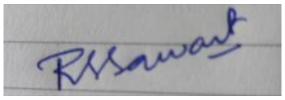

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the biological basis of Psychology. The learner will be able to know the structure and functions of neurons. The learner will be able to understand the nervous system and its parts and what role it plays in Psychology. The learner will be able to have an insight in methods of studying the brain and parts of the brain that influence human Psychology. The learner will be able to understand the endocrine system and its functions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY 101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 2** **TITLE: THE BIOLOGICAL PERSPECTIVE**	**NEURONS AND NERVES : BUILDING THE NETWORK** - structure of the neuron - neural impulse - synapse - neurotransmitters - reuptake and enzymes	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	AN OVERVIEW OF THE NERVOUS SYSTEM - central nervous system - peripheral nervous system	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Chalk and Board, Books, short videos

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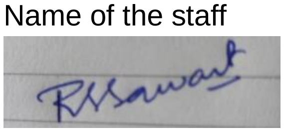

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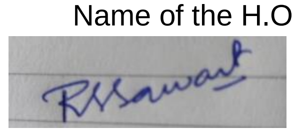

	And structure of the brain		Education Services Pvt.ltd.	
	DISTANT CONNECTIONS:THE ENDOCRINE GLANDS - pituitary gland - thyroid gland - pancreas - gonads - adrenal gland	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	LOOKING INSIDE THE LIVING BRAIN - clinical studies - EEG - CT scan - MRI scan - PET scan	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	FROM THE BOTTOM UP : THE STRUCTURES OF THE BRAIN - brain stem - structures under the cortex - the cortex - the association area of the cortex	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th	Chalk and Board, Books,

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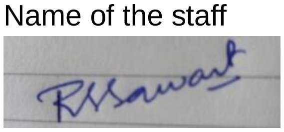

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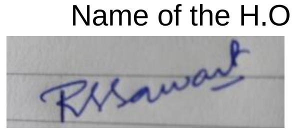

	- discussion and examples - Classic studies in Psychology. - e. g. Difference between male and female brains		Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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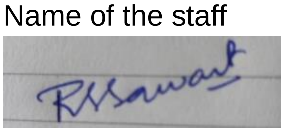

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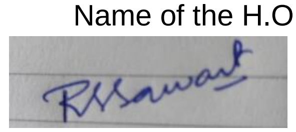

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define Learning. The learner will be able to understand the classical conditioning method of learning and its application. The learner will be able to know the operation conditioning method of learning and its application. The learner will be able to understand other cognitive methods of learning. The learner will be able to know observational methods of learning.

<table>
<tr><th>PAPER, UNIT, TITLE</th><th>SUBTOPICS</th><th>NO OF LECTURES
ALLOTTED</th><th>REFERENCE/S</th><th>TEACHING METHOD/ ICT TOOLS USED</th></tr>
<tr><td rowspan="2">PAPER I (UAPSY101)

FUNDAMENTALS OF PSYCHOLOGY - I

UNIT 3

TITLE: LEARNING</td><td>DEFINITION OF LEARNING
- features</td><td>02</td><td>Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.</td><td>Chalk and Board,
Books,
short videos</td></tr>
<tr><td>CLASSICAL CONDITIONING, AND OPERANT CONDITIONING
- Pavlov and salivating dog
- Elements of classical conditioning
- Thorndike's puzzle box and frustrating cat
- reinforcement</td><td>04</td><td>Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.</td><td>Chalk and Board,
Books,
short videos</td></tr>
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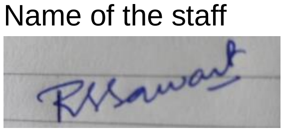

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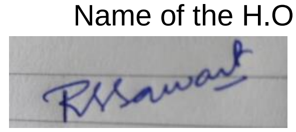

	- schedules of reinforcement			
	COGNITIVE LEARNING THEORY - Tolman's Maze running rats - latent learning Seligman's depressed dogs and learned helplessness - Killer's Chimp and insight learning	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	OBSERVATIONAL LEARNING - Bandura and bobo doll - four elements of observational learning	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Mentally challenged child	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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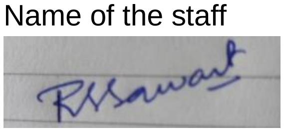

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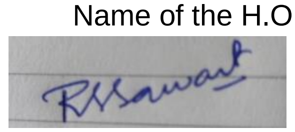

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **I**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define memory. The learner will be able to know models of memory. The learner will be able to understand the three different stages of memory according to the information processing model. The learner will be able to have an insight in the retrieval process of long term memory. The learner will be able to define forgetting and understand its nature. The learner will be able to know the physical aspects of memory.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY101) **FUNDAMENTALS OF PSYCHOLOGY - I** **UNIT 4** **TITLE: MEMORY**	**WHAT IS MEMORY?** - encoding - storage - retrieval	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	THE INFORMATION PROCESSING MODEL:THREE MEMORY SYSTEMS - sensory memory - short term memory - long term memory - long term memory organization	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos

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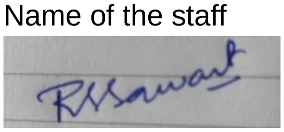

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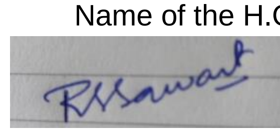

	RETRIEVAL OF LONG –TERM MEMORIES - retrieval cues - recall - recognition	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	FORGETTING - Ebbinghaus and forgetting curve - encoding failure - memory trace decay theory - interference theory.	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	NEUROSCIENCE OF MEMORY **- NEURAL ACTIVITY** **- HIPPOCAMPUS AND MEMORY** **- ORGANIC AMNESIA**	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Chalk and Board, Books, short videos
	APPLYING PSYCHOLOGY TO EVERYDAY LIFE. - discussion and examples - classic studies - E. G. Alzheimer's disease	02	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Chalk and Board, Books, short videos

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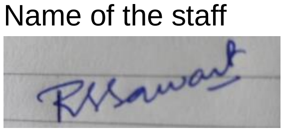

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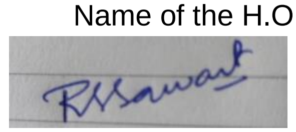

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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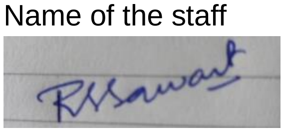

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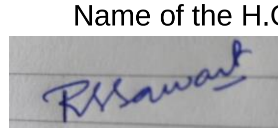

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to understand the concept of social psychology. The learner will be able to know how social psychology originated and developed. The learner will be able to gain insight into the research methods used in social psychology.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 1** **TITLE: SOCIAL PSYCHOLOGY : THE SCIENCE OF THE SOCIAL SIDE OF LIFE**	**SOCIAL PSYCHOLOGY : WHAT IT IS AND WHAT IT IS NOT** -scientific in nature -focus on behavior of individual -causes of social behavior and thought	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	SOCIAL PSYCHOLOGY : ADVANCES AT THE BOUNDARIES - origins and development	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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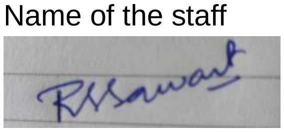

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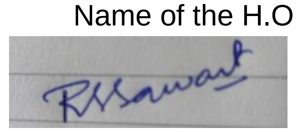

	HOW SOCIAL PSYCHOLOGISTS ANSWER THE QUESTIONS THEY ASK : RESEARCH AS THE ROUTE TO INCREASED KNOWLEDGE - experimental method -correlation method - importance of replications, meta-analysis, and converging operations	04	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE ROLE OF THEORY IN SOCIAL PSYCHOLOGY - role of Theory	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE QUEST FOR KNOWLEDGE AND THE RIGHTS OF INDIVIDUAL : SEEKING AN APPROPRIATE BALANCE - need for balancing	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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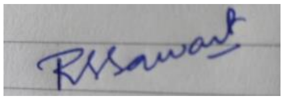

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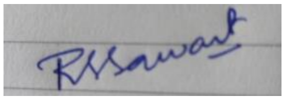

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to understand the nature of non verbal communication. The learner will be able to define attribution. The learner will be able to discuss factors contributing to attribution and the errors made while attributing. The learner will be able to understand the process of impression management and impression formation.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 2** **TITLE: SOCIAL PERCEPTION : SEEKING TO UNDERSTAND OTHERS**	**NON VERBAL COMMUNICATION : AN UNSPOKEN LANGUAGE** - basic channels - emotional expressiveness - detection of deception	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	ATTRIBUTION : UNDERSTANDING THE CAUSES OF BEHAVIOUR - theories of attribution - basic errors in attribution	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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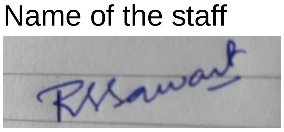

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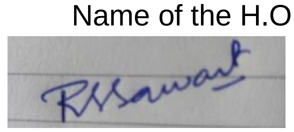

	IMPRESSION FORMATION AND MANAGEMENT : COMBINING INFORMATION ABOUT OTHERS - impression formation - impression management	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT THE ROLE OF NON VERBAL CUES IN JOB INTERVIEW? - research findings	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT WHY SOME PEOPLE CONCLUDE THEY ARE SUPERIOR TO OTHERS? - research findings	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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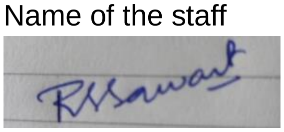

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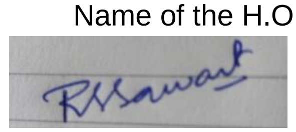

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to define attitude. The learner will be able to know how to form attitudes. The learner will be able to understand when and how attitudes influence and guide behaviour. The learner will be able to gain insight into the concept of persuasion and how to resist it. The learner will be able to know the cognitive dissonance. The learner will be able to know how culture influences attitudes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 3** **TITLE: ATTITUDES : EVALUATING AND RESPONDING TO THE SOCIAL WORLD**	**ATTITUDE FORMATION : HOW ATTITUDES DEVELOP** - social learning -social comparison - genetic factors	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	WHEN AND WHY DO ATTITUDES INFLUENCE BEHAVIOUR? - attitudes and actions	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	HOW DO ATTITUDES GUIDE BEHAVIOUR?	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor	

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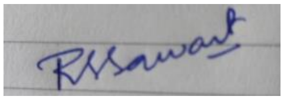
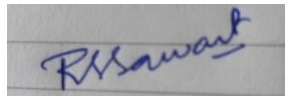
Name of the staff Name of the H.O.D





	- specificity - strength - accessibility		(2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	THE SCIENCE OF PERSUASION: HOW ATTITUDES ARE CHANGED - traditional approach - cognitive approach - attitude functions - reciprocity - message framing	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	RESISTING PERSUASION ATTEMPTS - reactance - forewarning - selective avoidance	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	COGNITIVE DISSONANCE: WHAT IT IS AND HOW DO WE MANAGE IT? - forced compliance	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT CULTURE AND	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor	

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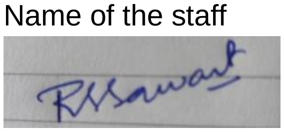

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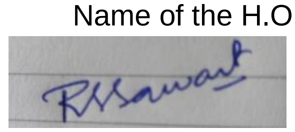

	ATTITUDE PROCESSES? - social diversity		(2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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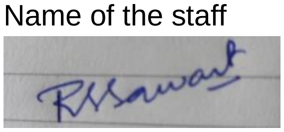

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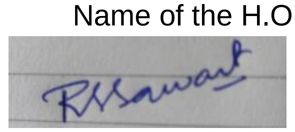

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain more insight into interpersonal liking. The learner will be able to understand the factors influencing interpersonal liking. The learner will be able to understand types of close relationships. The learner will be able to know the factors that may destroy close relationships.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY301) **SOCIAL PSYCHOLOGY - I** **UNIT 4** **TITLE: LIKING, LOVE AND OTHER CLOSE RELATIONSHIPS**	**INTERNAL SOURCES OF LIKING OTHERS : THE ROLE OF NEEDS AND EMOTIONS** - physical surroundings - positive and negative effects - need to affiliation	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Chalk and Board, Books, short videos
	EXTERNAL SOURCES OF ATTRACTION:THE EFFECTS OF PROXIMITY, FAMILIARITY AND PHYSICAL BEAUTY - proximity - familiarity	03	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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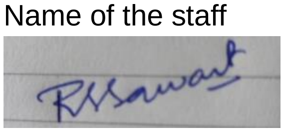

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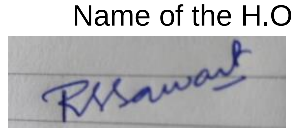

	- physical beauty			
	SOURCES OF LIKING BASED ON SOCIAL INTERACTION - familiarity and interaction	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	CLOSE RELATIONSHIPS: FOUNDATIONS OF SOCIAL LIFE - reciprocity - similarity	02	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	
	WHAT RESEARCH TELLS US ABOUT DRAMATIC DIFFERENCES IN APPEARANCE BETWEEN PARTNERS: IS LOVE REALLY BLIND? - factors influencing interpersonal attraction	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

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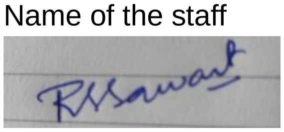

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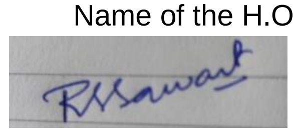

	WHAT RESEARCH TELLS US ABOUT TWO FACTORS THAT MAY DESTROY LOVE- JEALOUSY AND INFIDELITY - jealousy - infidelity	01	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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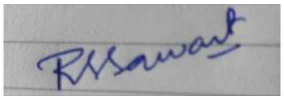

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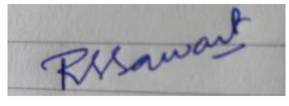

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into lifespan development. The learner will be able to know developmental milestones in adolescence with reference to physical development. The learner will be able to understand the cognitive development that occurs in adolescence. The learner will understand the language development occurring in adolescence.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 1** **TITLE: AN INTRODUCTION TO LIFESPAN DEVELOPMENT AND ADOLESCENCE PHYSICAL & COGNITIVE DEVELOPMENT**	**LIFESPAN DEVELOPMENT** - An orientation to lifespan development - defining life span development - scope of the field (areas, age and individual differences) - basic influences in development (history, age, socio-cultural, life events)	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	PHYSICAL MATURATION - puberty (timing, sequence and signs of maturation) - fitness - sleep needs	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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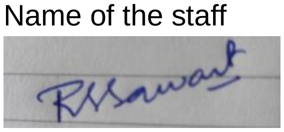

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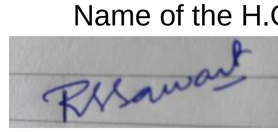

	COGNITIVE DEVELOPMENT AND SCHOOLING - Piaget's stage of formal operations - language development - educational and vocational issues	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	
	THREATS TO ADOLESCENCE WELL BEING - nutrition and eating disorder - uses and abuses of drugs - depression - deaths in adolescence	03	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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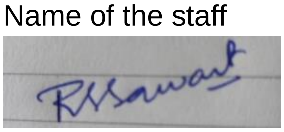

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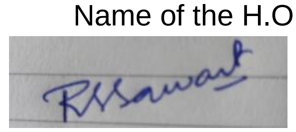

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into psychosocial development during adolescence. The learner will be able to understand the process of realizing sexual orientation in adolescence. The learner will be able to know the dynamics of relationships with family and friends.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 2** **TITLE: SOCIAL AND PERSONALITY DEVELOPMENT IN ADOLESCENCE**	**IDENTITY** - Erikson’s identity versus identity confusion - Marcia – identity status, crisis and commitment - gender differences	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	RELATIONSHIPS - adolescence and parents - adolescence and siblings - adolescence and peers	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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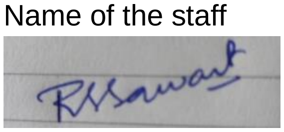

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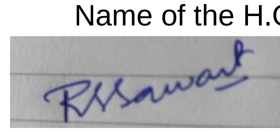

	DATING, SEXUAL BEHAVIOUR AND TEENAGE PREGNANCY - dating - sexual behaviour - teenage pregnancy		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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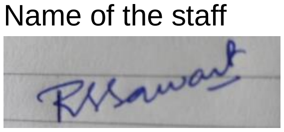

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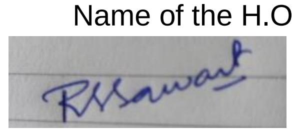

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to know the developmental milestones in adulthood. The learner will be able to understand the physical development occurring in early adulthood. The learner will be able to understand the cognitive development occurring in early adulthood. The learner will be able to know the relevance of pursuing higher education in early adulthood.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (PSY 302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 3** **TITLE: PHYSICAL AND COGNITIVE DEVELOPMENT IN EARLY ADULTHOOD**	**PHYSICAL DEVELOPMENT** - Erikson's identity versus identity confusion - Marcia – identity status, crisis and commitment - gender differences	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	COGNITIVE DEVELOPMENT - Erikson's theory - post formal thinking - intelligence	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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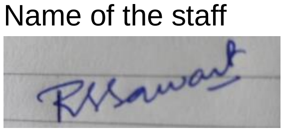

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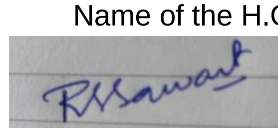

	COLLEGE: PURSUING HIGHER EDUCATION - demographics of higher education - college adjustment - reacting to the demands of college life		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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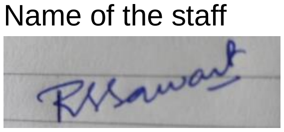

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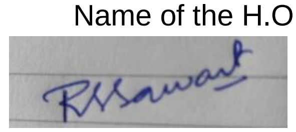

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **III**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: The learner will be able to gain insight into psychosocial development during early adulthood. The learner will be able to understand the relationship patterns in early adulthood. The learner would be able to gain insight into the attachment styles of early adults. The learner will be able to know the process of choosing a partner in early adulthood.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY302) **DEVELOPMENTAL PSYCHOLOGY - I** **UNIT 4** **TITLE: SOCIAL AND PERSONALITY DEVELOPMENT IN EARLY ADULTHOOD**	**FORGING RELATIONSHIPS: INTIMACY, LIKING AND LOVING DURING EARLY ADULTHOOD** - components happiness - emerging adulthood - love - choosing partner - attachment styles - gay and lesbian relationship	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Chalk and Board, Books, short videos
	THE COURSE OF RELATIONSHIPS - marriage - parenthood - gay and lesbian parents - staying single	04	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

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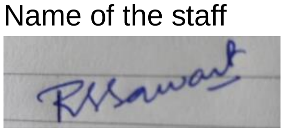

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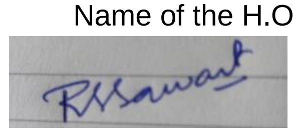

	WORK: CHOOSING & EMBARKING ON A CAREER - identity during young adulthood - picking an occupation - choosing a career - gender and career choices		Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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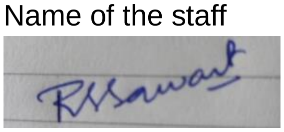

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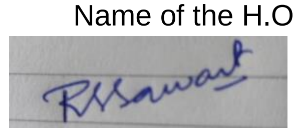

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1) To impart knowledge and understanding of nature, uses, technical features, and the process of construction of psychological tests.
2) To create awareness about measurement of intelligence and assessment of personality
3) To impart knowledge and understanding of the concepts in Statistics and the various measures of Descriptive Statistics - their characteristics, uses, applications and methods of calculation
4) To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 1**	a) Test conceptualization and Test construction b) Test tryout and Item analysis c) Test revision d)Meaning and types of correlation – positive, negative	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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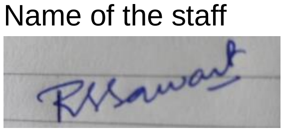

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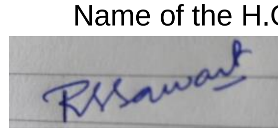

TITLE: Test Development and Correlation	and zero; Graphic representations of correlation - Scatterplots e) The steps involved in calculation of Pearson’s product-moment correlation coefficient f) Calculation of rho by Spearman’s rank-difference method; Uses and limitations of correlation coefficient g) Simple Regression and Multiple Regression			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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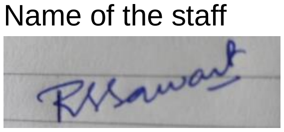

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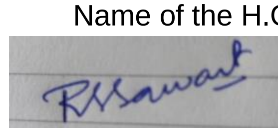

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 2**	a) The concept of Reliability; sources of error variance b) Reliability estimates: Test-Retest, Parallel and Alternate Forms, Split-Half, Inter-	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New	Chalk and Board, Books, google classroom, short videos.

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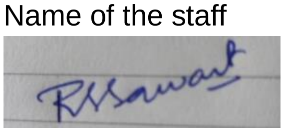

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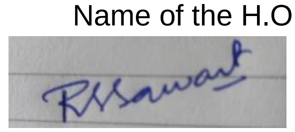

TITLE: Reliability	Item Consistency Kuder-Richardson, Cronbach's Coefficient Alpha; Inter-Scorer Reliability c) Using and interpreting a coefficient of Reliability – purpose of the Reliability coefficient, nature of the test, the true score model of measurement and alternatives to it d) Reliability and individual scores: SEM and SE-Difference		York. McGraw-Hill International edition. (Indian reprint 2015)	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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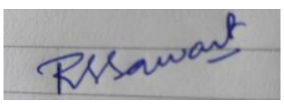

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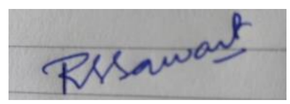

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 3** **TITLE: Validity and Measures of central tendency**	a) The concept of validity; Face and Content validity b) Criterion-related validity and Construct validity c) Validity, bias, and fairness d) Calculation of mean, median and mode of a frequency distribution; The assumed mean method for calculating the mean e) Comparison of measures of central tendency: Merits,	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8^{th} ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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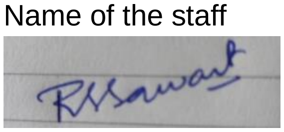

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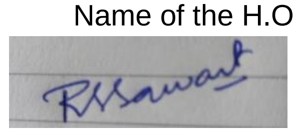

	limitations, and uses of mean, median and mode			

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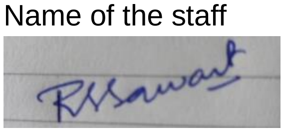

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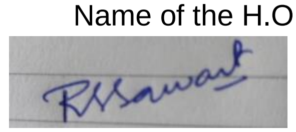

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PAPER IV (UAPS501) **Psychological Testing and Statistics: Part I** **UNIT 4** **TITLE: Types of scores, Types of scales, Frequency Distribution, Graphic representations**	a) Continuous and discrete scores – meaning and difference; Nominal, ordinal, interval and ratio scales of measurement b) Preparing a Frequency Distribution; advantages and disadvantages of preparing a frequency distribution; smoothed frequencies: method of running averages	04 PER WEEK	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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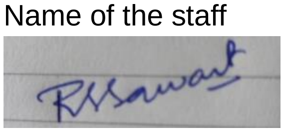

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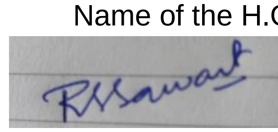

	c) Graphic representations: Frequency polygon, histogram, cumulative frequency curve, ogive, polygon of smoothed frequencies			

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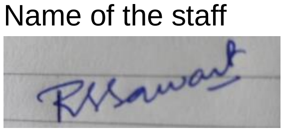

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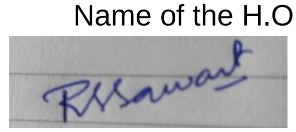

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

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PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 1** **TITLE:** **Understanding Abnormal behavior, Diagnosis,**	a) What is Abnormal Behaviour? The social impact of psychological disorders; defining abnormality; biological, psychological, sociocultural causes of abnormal behaviour, the biopsychosocial perspective; prominent themes in abnormal psychology throughout history – spiritual, humanitarian and scientific approaches; what's	04 PER WEEK	**Whitbourne, S. K., & Halgin, R. P. (2014).** ***Abnormal Psychology: Clinical Perspectives on Psychological Disorders.*** **(7th ed.). McGraw-Hill (Indian reprint 2015)**	Chalk and Board, Books, google classroom, short videos.

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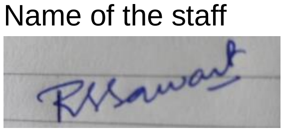

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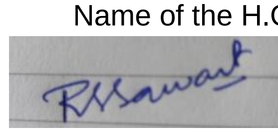

<u>Treatment and Assessment</u>	new in the DSM-5 – definition of a mental disorder b) Psychological disorder : experiences of client and clinician; the diagnostic process, DSM-5, additional information, culture-bound syndromes c) Characteristics of psychological assessment; clinical interview and Mental Status Examination; behavioural, multicultural, neuropsychological assessment; neuroimaging			

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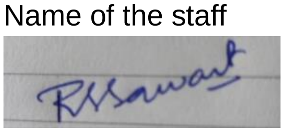

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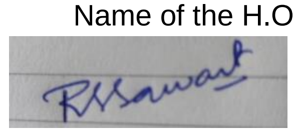

TEACHING PLAN (UNIT PLAN)

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 2** **TITLE:** <u>Theoretical Perspectives</u>	a) Theoretical perspectives in Abnormal Psychology; Biological perspective, Trait theory, Psychodynamic, Behavioral perspectives b) Cognitive, Humanistic, Sociocultural perspectives; Biopsychosocial perspectives on theories and treatments: an integrative approach	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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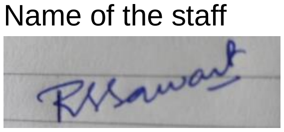

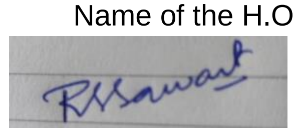

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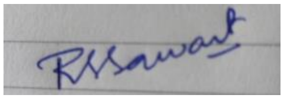

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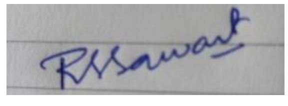

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PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 3** **TITLE: <u>Anxiety, Obsessive-compulsive, and Trauma- and</u>**	a) Anxiety Disorders b) Obsessive-compulsive and related disorders c) Trauma- and Stressor-related Disorders; the biopsychosocial perspective	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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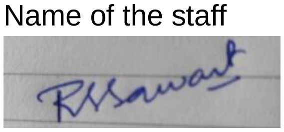

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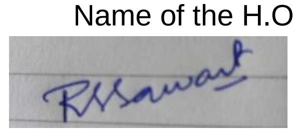

Stressor-related Disorders				

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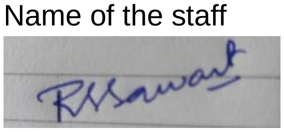

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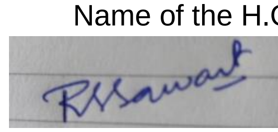

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PAPER V (UAPS502) **ABNORMAL PSYCHOLOGY - I** **UNIT 4** **TITLE:** **<u>Dissociative and Somatic Symptom Disorders</u>**	a) Dissociative disorders – major forms, theories and treatment b) Somatic symptom and related disorders - somatic symptom disorder, illness anxiety and conversion disorders, conditions related to Somatic Symptom Disorders, theories and treatment	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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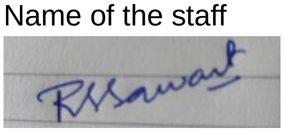

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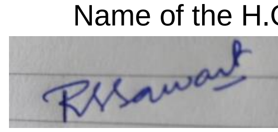

	c) Psychological factors affecting medical condition; Dissociative and Somatic Symptom Disorders: the biopsychosocial perspective			

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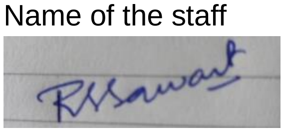

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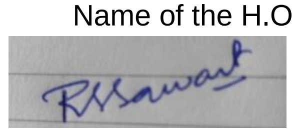

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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 1** **TITLE: <u>Job Analysis</u>**	a) What is job analysis? Purposes of job analysis; How job analysis information is collected b) Methods of job analysis; Reliability and validity of job analysis information; Job evaluation	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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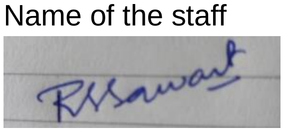

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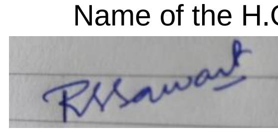

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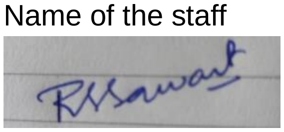

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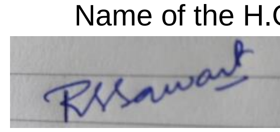

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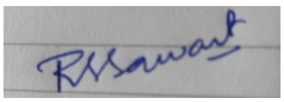
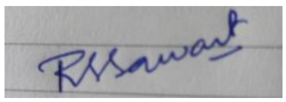
PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 2** **TITLE: <u>Performance Appraisal</u>**	a) Why do we appraise employees? Performance criteria b) Objective and subjective methods for assessing job performance; the impact of technology on performance appraisal; legal issues in performance appraisal	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

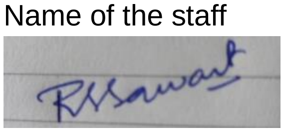
Rashmi sawant
Name of the staff



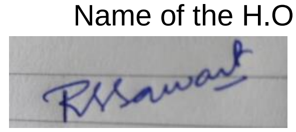
Rashmi Sawant
Name of the H.O.D



Rashmi sawant
Name of the staff



Rashmi Sawant
Name of the H.O.D



TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER VI (UAPS503) **Industrial-Organizational Psychology: Part I** **UNIT 3** **TITLE: <u>Assessment Methods for Selection and Placement</u>**	a) Job-Related characteristics. b) Characteristics of psychological tests c) Ability Tests, Knowledge, Skills and all other tests d) Biographical information, interviews, work samples, Assessment centers and electronic assessment.	04 PER WEEK	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Chalk and Board, Books, google classroom, short videos.

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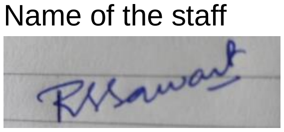
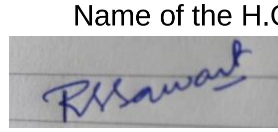
Name of the staff



Rashmi Sawant
Name of the H.O.D



TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **V**

MONTH: **AUGUST - DECEMBER** ACADEMIC YEAR: **2022-2023**

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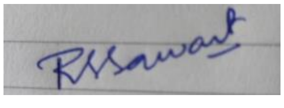
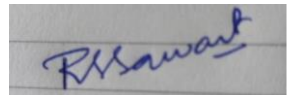
CATED TO THE UNIT: 12

Rashmi sawant
Name of the staff



Rashmi Sawant
Name of the H.O.D



Shri. Vishnu Waman Thakur Charitable Trust's

Bhaskar Waman Thakur College of Science,
Yashvant Keshav Patil College of Commerce,
Vidhya Dayanand Patil College of Arts,
(VIVA College)
(NAAC ACCREDITED-'B' Grade, CGPA 2.69)

TEACHING PLAN UNIT PLAN PSYCHOLOGY 2022-23

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
1. To impart knowledge of the basic concepts and modern trends in Psychology.
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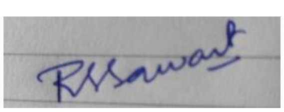
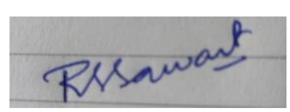
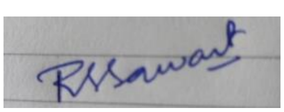
3. To make the students aware of the applications of Psychological concepts in different areas of day to day life.

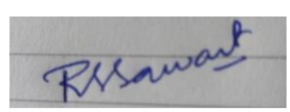
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 1**	a) How People think. b) Intelligence. c) Language d) Applying Psychology to Everyday life.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India	Board and chalk, Classroom discussion, small experiments and activities, short videos

TITLE: Cognition: Thinking, Intelligence and Language.			Education Services Pvt.ltd.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 2** **TITLE:** **Motivation and Emotion.**	a) Approaches to understanding Motivation. b)Wha, Hungry again? Why People Eat. c) Emotion. d) Culture and Emotions. e) Applying Psychology to Everyday life.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

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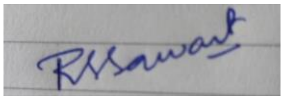

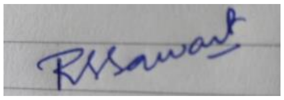

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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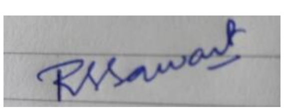
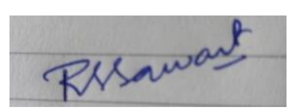
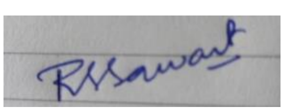
PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 3** **TITLE:** **Theories of Personality.**	a) Psychodynamic Perspective. b) Psychoanalysis in the East . c) The Behavioural and Social Cognitive View of Personality. d) The Third Force : Humanism and Personality. e) Trait Theories: Who are you? f) Modern Trait Theories: The Big Five and current thoughts on the trait Perspective.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

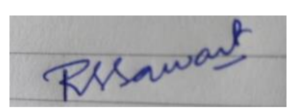




	g) Personality : Genetics and Culture. h) Assessment of Personality. i) Applying Psychology to Everyday life.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **F.Y.B.A.** SEMESTER: **II**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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PAPER I (UAPSY201) **FUNDAMENTALS OF PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Statistics in Psychology.**	a)What are Statistics? b) Descriptive Statistics. c) Inferential Statistics.	12	Ciccarelli, S.K., White, J.N., & Mishra, G. (2018). Psychology. 5th Edition; Indian Adaptation. Pearson India Education Services Pvt.ltd.	Board and chalk, Classroom discussion, small experiments and activities, short videos

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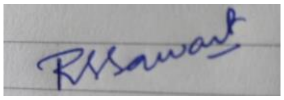
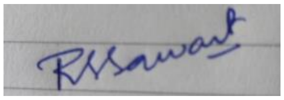




TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

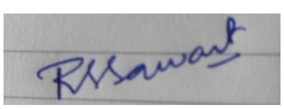
CLASS: **S.Y.B.A.** SEMESTER: **IV**

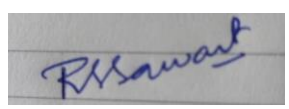
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1. To help students in building knowledge of the basic concepts and modern trends in Social Psychology.
2. To foster interest in Social Psychology as a field of study and research among students.
3. To make the students aware of the applications of the various concepts in Social Psychology in the Indian context.

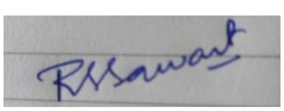
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 1** **TITLE:**	**A) HOW MEMBERS OF DIFFERENT GROUPS PERCEIVE INEQUALITY** **B) THE NATURE AND ORIGINS OF STEREOTYPING** **C) PREJUDICE: FEELINGS TOWARD SOCIAL GROUPS**	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

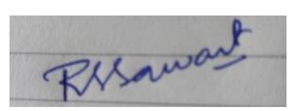




Causes, and Cures of Stereotyping, Prejudice and Discrimination	**D) DISCRIMINATION: PREJUDICE IN ACTION** **E) WHY PREJUDICE IS NOT INEVITABLE: TECHNIQUES FOR COUNTERING ITS EFFECTS** **F) WHAT RESEARCH TELLS US ABOUT THE ROLE OF EXISTENTIAL THREAT IN PREJUDICE**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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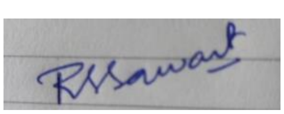
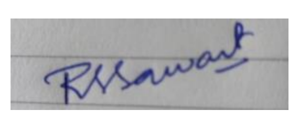
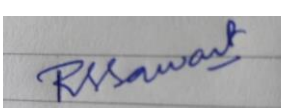
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 2** **TITLE:**	**A) CONFORMITY: HOW GROUPS – AND NORMS – INFLUENCE OUR BEHAVIOR.** **B) COMPLIANCE: TO ASK – SOMETIMES – IS TO RECEIVE** **C) OBEDIENCE TO AUTHORITY: WOULD YOU HARM SOMEONE IF ORDERED TO DO SO?** **D) UNINTENTIONAL SOCIAL INFLUENCE: HOW OTHERS CHANGE OUR BEHAVIORS EVEN**	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

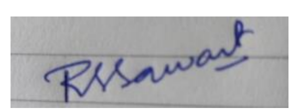




SOCIAL INFLUENCE: CHANGING OTHERS' BEHAVIOR	WHEN THEY ARE NOT TRYING TO DO SO E) WHAT RESEARCH TELLS US ABOUT HOW MUCH WE REALLY CONFORM? F) WHAT RESEARCH TELLS US ABOUT USING SCARCITY TO GAIN COMPLIANCE?			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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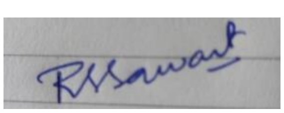
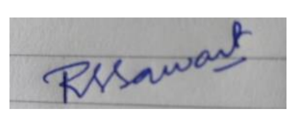
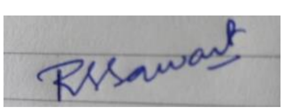
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 3** **TITLE:**	a) Perspectives on aggression: In search of the roots of violence b) Causes of human aggression: Social, cultural, personal and situational	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

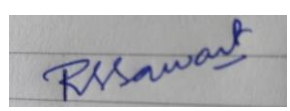




Aggression: Its Nature, Causes and Control	c) Aggression in the classroom and workplace d) The prevention and control of violence: some useful techniques e) What research tells us about the role of emotions in aggression? f) What research tells us about workplace aggression?			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

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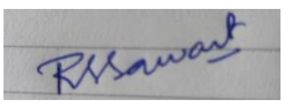
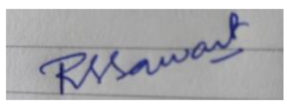
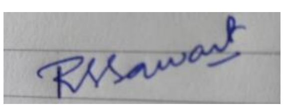
PAPER II (UAPSY401) **SOCIAL PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Prosocial Behavior: Helping Others**	a) Why people help: Motives for prosocial behaviour b) Responding to an emergency: Will bystanders help c) Factors that increase or decrease the tendency to help d) Crowdfunding: A new type of prosocial behaviour	12	Branscombe, N. R. & Baron, R. A., Adapted by Preeti Kapoor (2017). *Social Psychology*. (14th Ed.). New Delhi: Pearson Education; Indian reprint 2017	Board and chalk, Classroom discussion, small experiments and activities, short videos

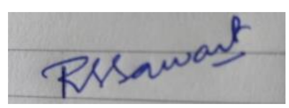




	e) Final thoughts: Are prosocial behaviour and aggression opposites? f) What research tells us about paying it forward: Helping others because we have been helped g) What research tells us about how people react to being helped			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

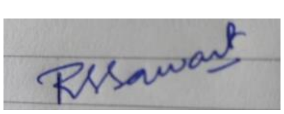
1. To help students in building knowledge and understanding of the basic concepts, principles, perspectives and modern trends in Developmental Psychology
2. To foster interest in Developmental Psychology as a field of study and research among students.
3. To make the students aware of the implications and applications of the various concepts, principles and theories of Developmental Psychology in daily life in the Indian context

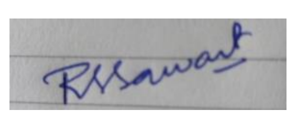
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 1** **TITLE:** **Physical and Cognitive Development in Middle Adulthood**	**a) Physical development** **b) Health** **c) Cognitive development**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**





DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 2** **TITLE:** **Social and Personality Development in Middle Adulthood**	**a) Personality Development** **b) Relationships: Family in Middle Age** **c) Work & Leisure**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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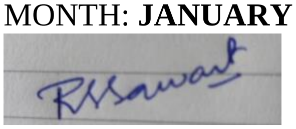
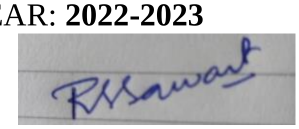
DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**





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PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 3** **TITLE:** **Physical and Cognitive Development in Late Adulthood**	**a) Physical development in Late Adulthood** **b) Health and wellness in Late Adulthood** **c) Cognitive development in Late Adulthood**	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **S.Y.B.A.** SEMESTER: **IV**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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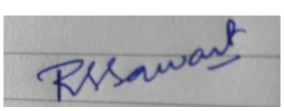

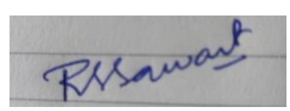

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III (UAPSY402) **DEVELOPMENTAL PSYCHOLOGY -II** **UNIT 4** **TITLE:** **Social and Personality Development in Late Adulthood**	a) Personality Development and successful aging b) The daily life of Late Adulthood c) Relationships: Old & new	12	Feldman, R. S. & Babu, N. (2018). Development across the LifeSpan. (8th Ed). India: Pearson India Education services Pvt. Ltd	Board and chalk, Classroom discussion, small experiments and activities, short videos

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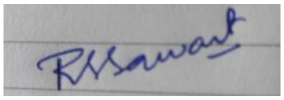

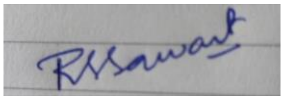

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:

1) To impart knowledge and understanding of the nature, uses, technical features, and the process of construction of psychological tests
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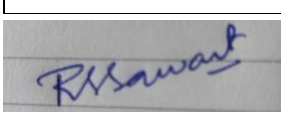
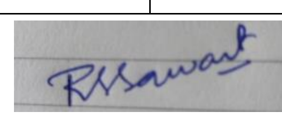
4) To create a foundation for advanced learning of Psychological Testing, Assessment, and Statistics

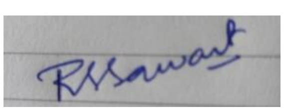
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 1** **TITLE:** **Test Development and Correlation**	a) Test conceptualization and Test construction b) Test tryout and Item analysis c) Test revision d) Meaning and types of correlation positive, negative and zero; Graphic representations of correlation - Scatter Plots e) The steps involved in calculation of Pearson's product-moment correlation coefficient f) Calculation of rho by Spearman's rank-difference	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

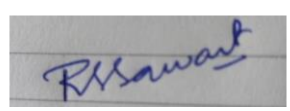




	method; Uses and limitations of correlation coefficient g) Simple Regression and Multiple Regression			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

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DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

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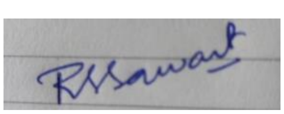
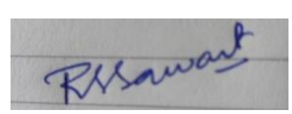
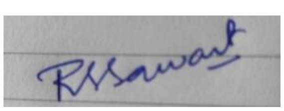
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 2** **TITLE:** **Measurement of Intelligence, Intelligence Scales, Probability, Normal Probability Curve and Standard scores**	a) What is Intelligence? - Definitions and theories; measuring Intelligence b) The Stanford-Binet Intelligence Scales and the Wechsler Tests: WAIS, WISC, WPPSI c) The concept of Probability; laws of Probability; Characteristics, importance and applications of the Normal Probability Curve; Area under the Normal Curve	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

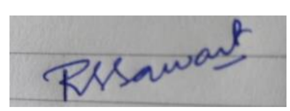




	d) Skewness-positive and negative, causes of skewness, formula for calculation; Kurtosis - meaning and formula for calculation e) Standard scores – z, T, Stanine; Linear and non-linear transformation; Normalised Standard scores			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

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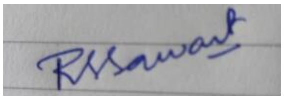
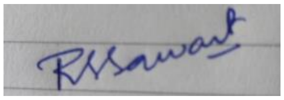
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 3** **TITLE:** **Assessment of Personality**	a) Personality Assessment – some basic questions: who, what, where, how; Developing instruments to assess personality – logic and reason, theory, data reduction methods, criterion groups; personality assessment and culture b) Objective methods of personality assessment c) Projective methods of personality assessment -	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement*. (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videos google classroom,





	Inkblots as Projective stimuli - the Rorschach; Pictures as Projective stimuli – Thematic Apperception Test; Projective methods in perspective			

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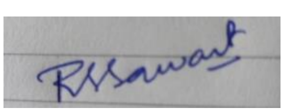

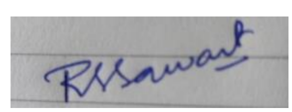

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PAPER IV (UAPS601) **Psychological Testing and Statistics: Part II** **UNIT 4** **TITLE:** **Measures of Variability, Percentiles, and Percentile Ranks**	a) Calculation of 4 measures of variability: Range, Average Deviation, Quartile Deviation and Standard Deviation b) Comparison of 4 measures of variability: Merits, limitations, and uses c) Calculation of Percentile ranks and Percentile Scores. d) Percentiles – nature, merits, limitations, and uses.	12	Cohen, J. R., Swerdlik, M. E., & Sturman, E. D. (2013). *Psychological Testing and Assessment: An introduction to Tests and Measurement.* (8th ed.). New York. McGraw-Hill International edition. (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videos google classroom, .

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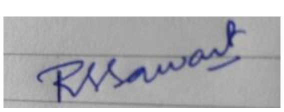

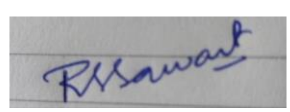

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TEACHING PLAN (UNIT PLAN)

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CLASS: **T.Y.B.A.** SEMESTER: **VI**

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LEARNING OBJECTIVE/S:
1) To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality
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PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 1** **TITLE:** **Schizophrenia Spectrum and other Psychotic Disorders**	a) Schizophrenia, brief psychotic disorder, Schizophreniform Schizoaffective, delusional disorders b) Theories and treatment of schizophrenia; Biological, Psychological, Sociocultural perspectives; Schizophrenia: the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

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TEACHING PLAN (UNIT PLAN)

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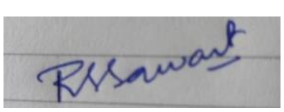

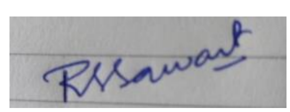

CLASS: **T.Y.B.A.** SEMESTER: **VI**

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PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY -II** **UNIT 2** **TITLE:** **Depressive and Bipolar Disorders**	a) Depressive disorders; disorders involving alterations in mood b) Theories and treatment of depressive and bipolar disorders; psychological and sociocultural perspectives c) Suicide; depressive and bipolar disorders: the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

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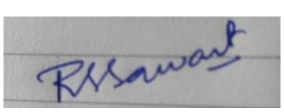

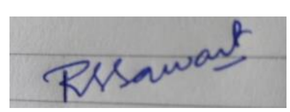

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DEPARTMENT: **PSYCHOLOGY**

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PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 3** **TITLE:** **Paraphilic Disorders, Sexual Dysfunctions, and Gender Dysphoria**	a) What patterns of sexual behavior represent psychological disorders? Paraphilic Disorders; Theories and treatment b) Sexual Dysfunctions; Theories and treatment c) Gender Dysphoria; Theories and treatment; The biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

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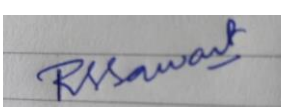

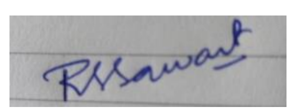

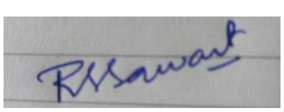

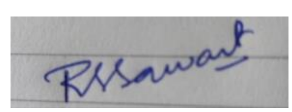

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CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

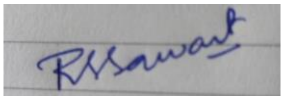
LEARNING OBJECTIVE/S:

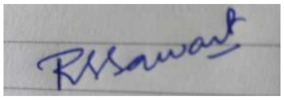
1) To impart knowledge and understanding of the basic concepts in Abnormal Psychology and the theories about Abnormality
2) To impart knowledge and understanding of the different Psychological Disorders – their symptoms, diagnosis, causes and treatment
3) To create awareness about Mental Health problems in society
4) To create a foundation for higher education and a professional career in Clinical Psychology

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER V (UAPS602) **ABNORMAL PSYCHOLOGY - II** **UNIT 4** **TITLE:** **Personality Disorders**	a) The nature of personality disorders b) Cluster A and Cluster B personality disorders c) Cluster C personality disorders; the biopsychosocial perspective	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)





NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

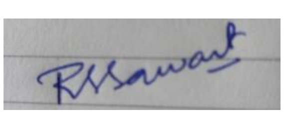
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

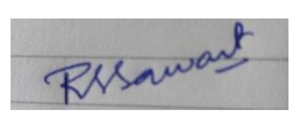
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 1** **TITLE:** **Theories of Employee Motivation**	a) What is motivation? Work motivation theories, need theories b) Other Theories - Reinforcement theory, expectancy theory and self-efficacy theory; Justice theories, goal-setting theory, control theory and action theory	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

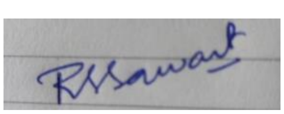
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

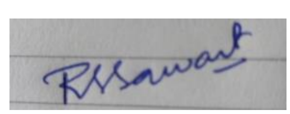
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 2** **TITLE:** **Feelings about Work: Job Attitudes and Emotions**	a) The nature of job satisfaction; how people feel about their jobs; the assessment and antecedents of job satisfaction b) Potential effects of job satisfaction; organizational commitment and emotions at work	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

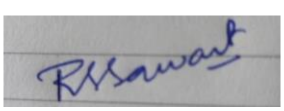
MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

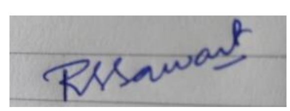
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 3** **TITLE:** **Leadership and Power in Organizations**	a) What is leadership? Sources of influence and power; abuse of supervisory power: sexual and ethnic harassment b) Approaches to the understanding of leadership; women in leadership positions; cross-cultural issues in leadership	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7th ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12





TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MRS. RASHMI SACHIN SAWANT**

DEPARTMENT: **PSYCHOLOGY**

CLASS: **T.Y.B.A.** SEMESTER: **VI**

MONTH: **JANUARY - APRIL** ACADEMIC YEAR: **2022-2023**

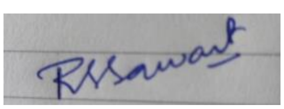
LEARNING OBJECTIVE/S:

1. To impart knowledge and understanding of the basic concepts in and various facets of Industrial and Organizational Psychology
2. To create awareness about the role and importance of Psychological factors and processes in the world of work
3. To create a foundation for higher education and a professional career in Industrial Psychology and Organizational Behaviour

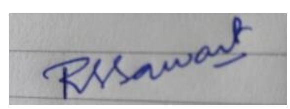
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER VI (UAPS603) **Industrial-Organizational Psychology: Part II** **UNIT 4** **TITLE: Organizational Development and Theory**	a) Organizational Development b) Organizational Theories	12	Whitbourne, S. K., & Halgin, R. P. (2014). *Abnormal Psychology: Clinical Perspectives on Psychological Disorders.* (7^{th} ed.). McGraw-Hill (Indian reprint 2015)	Board and chalk, Classroom discussion, small experiments and activities, short videost google classroom,

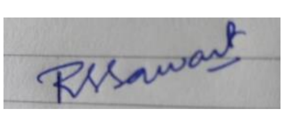
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

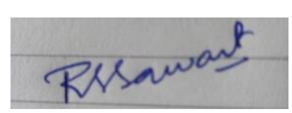
Rashmi sawant
Name of the staff



Rashmi Sawant
Name of the H.O.D







hri. Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

Course: 16th to 18th Century English Literature

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: December ACADEMIC YEAR: __2022-2023

Learning Objectives

1) To introduce students to English Literature of the 16th, 17th and 18thcenturies.

2) To show them how background influences shaped the writer's thinking.

3) To present them to the literary masters who dominated the scene

4) To familiarize students with different writing styles that each age adopted.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Unit 1: Background and Important Concepts:	1)Neo-Classical Period (1700-1798) i) Neo-Classical/Augustan ii) Age of Satire iii) Rise of the Periodical Essay and the Novel	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth	Google classroom, PPT, blackboard

			Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Dr Zeba Siddiqui

Signature of the Staff

Vidya Verma

Signature of the HOD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2:	John Dryden: All for Love	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The	Google classroom, PPT, blackboard

			Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya Verma

Dr. Zeba Siddiqui

Signature of the Staff

Signature of the HOD

Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I

MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	1. Basu, Durga Das, Introduction to the Constitution of India, Lexis Nexis, 2012.	CHLK AND TALK
	1.2 PREMABLE	4	2. Laxmikant, M, Indian Polity, TMH, 2015.	CHLK AND TALK
	1.3 BASIC FEATURES	4	3. Laxmikant, M., Governance in India, TMH, 2015.	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	3	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL: POLITICAL-SCIENCE CLASS: FYBA(ENGLISH) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	4	Laxmikant, M., Governance in India,	CHLK AND TALK
	3.3 JUDICIAL ACTIVISM	3	Laxmikant, M., Governance in India,	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	4.1 UNION EXECUTIVE - THE PRESIDENT	4	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
EXECUTIVE	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION	3	Laxmikant, M., Governance in India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

SIGNATURE OF THE STAFF

Vijaya N.

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
TITLE: INDIAN POLITICAL PROCESS CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	3	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	4	Laxmikant, M, Indian Polity	CHLK AND TALK

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	3	Laxmikant, M, Indian Polity	CHLK AND TALK

Klpatil.

SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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YashvantKeshavPatil College of Commerce
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BESIC CONCEPT OF POLITICALSCIENCE.

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.3 GLOBAL TERRORISM	4	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Klpatil.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills in English

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently

4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: English Usage in Communica tio n	Distinction between American English and British English 2. Indianism and Indian English 3. Appropriacy in the Use of English 4. Non- verbal Communica tio n 5. Elevator Pitch 6. Information and Communica tio n Technology and Use of English 7. Modes and Types of Interview 8. Principles of Creative Writing	08	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ●· Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook: Listening and Speaking Skills	Google classroom, PPT, blackboard, youtube

			Student's Book+ Online Workbook. Cambridge	

			University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ● · Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi,	

			2011. Oxford University Press, 2015	

			• Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. • McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. • Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw-Hill Education, 2002. • Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently

4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Enhancing Reading Competen cie s	A variety of passages of 200-250 words may be taken such as extracts from novels, short stories, plays, magazine, newspapers, reports, documents, academic texts. The passages should have complex text type, function and lexis. The learners may be encouraged to gather meaning contextually or by referring to offline and online sources such as dictionary, thesaurus, and encyclopedia. 1. Augmenting active vocabulary 2. Understanding relations	12	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ● · Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook:	Google classroom, PPT, blackboard, youtube

	between parts of a text 3. Transferring information (Verbal to Non Verbal) 4. Understanding concepts and			

	arguments, 5. Developing skills in analysis and interpretation 6. Rewriting a passage from a defined perspective 7. Reading critically (presenting a reasoned argument that evaluates and analyses what you have read)		Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp- Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ●· Kumar, Sanjay and Pushp Lata.	

			Communication Skills. Second Edition. New	

			Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

Vidya verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently

4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Unit 3: Advanced Oral Communicatio n Skills	A. Presentation skills: (Formal presentations and skits) 1. Planning and structuring 2. Opening and closing a presentation 3. Use of body language 4. Use of	15	• Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 • · Bellare, Nirmala. Easy Steps to Summary Writing and Note-Making. Amazon Kindle Edition, 2020	Google classroom, PPT, blackboard, youtube

	technology in making a presentation 5. Drafting a skit (Not to be tested in theory exam) 6. Reading of a skit 7. Presenting a skit Students are advised to prepare their own presentation scripts. Teachers should help them in drafting, reading and presenting those scripts in the class. B. Group Discussion: 1. Formal and informal discussion 2. Elements of group discussion 3. Using appropriate language: Initiating, seeking and giving opinions, suggesting, responding to a suggestion,		● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and Online Workbook: Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H.	

	agreeing, disagreeing, interrupting, requesting, clarifying, summing up 4. Types of discussion: Giving and sharing		and Beverley Holmstrom. Second edition. Study	

	opinions of a given topic, making decisions, problem solving (case study) C. Interview Skills 1. Interviewing others · Researching the interviewee (writer, social worker, entrepreneur, actor etc.) · Preparing questions · Conducting interview 2. Attending an Interview (Job/Entrance) · Researching the organization · Reviewing job- profile and your bio-data/CV · Preparing for standard questions · Responding to questions · Preparing your questions to ask to the interviewer/s 3.		Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp-Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ●· Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read Better & Faster. New Delhi, Goyal Publishers & Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in	

	Analyzing Interviews		Use. Cambridge: Cambridge	

			University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw-Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Communication Skills

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _FYBA SEMESTER: _2 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To enhance English language proficiency of students by familiarizing them with the skills of Listening, Speaking, Reading and Writing (LSRW)

2. To introduce learners to different perspectives of looking at a text or passage

3. To equip learners in the functional aspects of English so that they use the acquired language skills correctly and confidently

4. To guide learners in the effective use of the digital medium of communication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Advanced Writing Skills	A. Report Writing: 1. News report 2. Activity/Event report B. Creative Writing: 1. Personal Essay 2. Memoir 3. Short Speech on the given occasion/ event 4. Story writing	10	● Bellare, Nirmala. Reading & Study Strategies. Books. 1 and 2. Oxford University Press, 1997, 1998 ● · Bellare, Nirmala. Easy Steps to Summary Writing and Note Making. Amazon Kindle Edition, 2020 ● Comfort, Jeremy, et al. Speaking Effectively: Developing Speaking Skills for Business English. Cambridge University Press, 1994. ● Das, Bikram K., et. al. An Introduction to Professional English and Soft Skills. Cambridge University Press India Pvt. Ltd., 2010 ● Das, Yadjnaseni & R. Saha (eds.) English for Careers. Pearson Education India, 2012. ● Devlin,Joseph. How to Speak And Write Correctly. New York, The Christian Herald, 1910 ● Dimond-Bayir, Stephanie. Unlock Level 2 Listening and Speaking Skills Student's Book and	Google classroom, PPT, blackboard, youtube

			Online Workbook: Listening and Speaking Skills Student's Book+ Online Workbook. Cambridge University Press, 2014. ● Doff, Adrian and Christopher Jones. Language in Use (Intermediate and Upper Intermediate). CUP, 2004. ● Glendinning, Eric H. and Beverley Holmstrom. Second edition. Study Reading: A Course in Reading Skills for Academic Purposes. CUP, 2004 ● Goodale, Malcolm. Professional Presentations Video Pack: A Video Based Course. Cambridge University Press, 1998. ● Grellet, F. Developing Reading Skills. Cambridge: Cambridge University Press, 198 ● Grussendorf, Marion. English for Presentations. Oxford University Press, 2007.Hamp- Lyons, Liz and Ben Heasiey. Second edition. Study Writing: A Course in Writing Skills for Academic Purposes. CUP, 2006 ● · Kumar, Sanjay and Pushp Lata. Communication Skills. Second Edition. New Delhi, 2011. Oxford University Press, 2015 ● Lewis, N. How to Read	

			Better & Faster. New Delhi, Goyal Publishers &	

			Distributors Pvt. Ltd, 2006. ● McCarthy, Michael and Felicity O'Dell. English Vocabulary in Use. Cambridge: Cambridge University Press, 2001. ● Mohan, RC Sharma Krishna. Business Correspondence and Report Writing. Third edition. Tata McGraw Hill Education, 2002. ● Murphy, Raymond, et al. Grammar in use: Intermediate. Cambridge University Press, 2000	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Dr. Zeba Siddiqui Dr. Vidya Verma

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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

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VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			

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	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
IESTER IV - INDIAN ADMINISTRATION **ule 1. Introduction to Indian Administration**	.1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	.2.Salient features			

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	3. District Administration since Independence: Changing role of District Collector			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	2.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
Module 2. Personnel Administration	Training: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			
Module3. Financial Administration	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Iodule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			
	.3.Citizens’ Charter			

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VIVA COLLEGE, Virar (W)
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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH:

NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER

ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______ **TEACHING PLAN (UNIT PLAN)**

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd, 74th, AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur
Charitable Trust
BhaskarWaman Thakur

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER:V MONTH: AUGUST ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT POLITICAL PROCESS IN MODERN MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV POLITICAL PROCESS IN MODERN MAHARASHTRA	1.1.Historical Background	10	Indian Government and politics. B.B.Patil.	EXPLANATION
	1.2. Social Reforms movement			
	1.3. Formation of the sangita Mahrshtra			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __1o________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V MONTH: SEPTEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT World Sub -Regionalism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Sub_ Regionalism	2.1.Sub-Regionalism	10	Indian Government and politics. B.B.Patil.	lecture method
	2.2. Regional Disparities			
	2.3.Post-And Development			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: OCTOBER ACADEMIC YEAR: 2021-22LEARNING OBJECTIVE/S:

The learners will be able to : TO LEARN ABOUT political Institutions in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	3.1. State legiskature	O8	Indian Government and politics B.B.. Patil	
odule 3. Political Institutions in Maharashtra	3.2. State executive:Governor, Chief Minister,Councils and Ministers			EXPLANATION
	3.3,Judiciary: High Court and subordinate Courts			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____o8______

Vijaya N.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: NOVEMBER+DECEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT Cast and politics in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Cast and Politics in Maharashtra	4.1.Historical Background of caste based politics	10	Indian Government and politics. B.B.Patil.	Lecture Method
	:4.2. Cast dimensions of Maharashtra Politics			
	;4.3. Dominant cast politics:OBC,Dalit			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___10_______

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Vijaya N.

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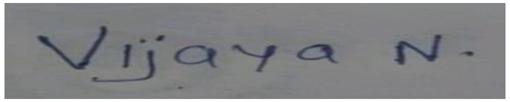

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IIIMONTH:JUNE&JULY ACADEMIC YEAR:2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION

PAPER III, UNIT I, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	4	Lokprashasan B.B.Patil	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline	4	Lokprashasan B.B.Patil	EXPLANATION
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST. PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: III MONTH: JULY_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THEORIES OF ADMINISTRATION.

PAPER III, UNIT II. , TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	Lokprashasan B.B.Patil	CHALK AND TALK

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	2.2. Bureaucratic Theory- Max Weber	3	Lokprashasan B.B.Patil	LECTURE METHOD
	2.3. Human Relations Theory- Elton Mayo	3	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) AUGUST:III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT BASIC PRINCIPALS AND THEORIES OF ORGANISATION.

PAPER III, UNITIII, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
asic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	4	Lokprashasan B.B.Patil	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland	4	Lokprashasan B.B.Patil	EXPLANATION
	3,Leadership Theories- Trait theory, Contingency theory	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICA- SC CLASS: SYBA(MARATHI) SEMESTER: III MONTH: SEPTEMBER_ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORAY TECHNIQURES AND PRACTICES IN ADMINISTRATION.

PAPER IV, UNIT IV, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Techniques and Practices in Administration	1.Good Governance	4	Lokprashasan Suvarna Benake	CHALK AND TALK
	2. E-Governance	4	Lokprashasan Suvarna Benake	LECTURE METHOD
	3. Public-Private Partnership (PPP)	3	Lokprashasan Suvarna Benake	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER III, UNIT I, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
troduction to Indian Administration	1.Evolution and Constitutional Context	4	Lokprashasan B.B.Patil	EXPLANETION
	2.Salient features	3	Lokprashasan B.B.Patil	EXPLANETION
	3. District Administration since Independence: Changing role of District Collector	3	Lokprashasan B.B.Patil	EXPLANETION

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPERIII , UNIT II, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	3	Lokprashasan B.B.Patil	EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission	4	Lokprashasan B.B.Patil	EXPLANETION
	raining: All- India Services, Central Services, State Services (Maharashtra)	3	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT FINANCIALADMINISTRATION IN INDIA .

PAPER III, UNIT III, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ancial Administration	. Budgetary Process	4	Lokprashasan B.B.Patil	DISCUSSION CHALK & TALK
	.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	Lokprashasan B.B.Patil	EXPLANETION
	.Comptroller and Auditor General	4	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: FEBRUARY & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORARY ISSUES IN INDIAN ADMINISTRATION.

PAPER III , UNIT IV, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Issues in Indian Administration	. Integrity in Administration: Lokpal, Lokyukta, CVC	4	Lokprashasan B.B.Patil	CHALK ABD TALK
	4.2. Citizen and Administration	3	Lokprashasan B.B.Patil	LECTURE METHOD
	3.Citizens' Charter	4	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

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Vijaya N.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya	CHALK AND TALK

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			Siddhanth, Vidya Books Publishers	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.2 Fascism	4	Citizenship: Dialogues and	CHALK AND TALK

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			Perception, Sage Publications	
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Public Administration	1.1. Meaning, Scope and Significance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.2. Evolution of Public Administration as a Discipline	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.3. Human Relations Theory- Elton Mayo	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TECHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Contemporary Techniques & Practices in Administration	.1.Good Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3. Public-Private Partnership (PPP)	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Indian	.1.Evolution and Constitutional Context	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

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Administration				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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ancial Administration	.1. Budgetary Process	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3.Comptroller and Auditor General	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: PROF. DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Issues in Indian Administration	.1. Integrity in Administration: Lokpal, Lokyukta, CVC	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	4.2. Citizen and Administration	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

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	4.3.Citizens' Charter	3	*Public Administration,* Tata McGraw hill	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE CLASS:TYBA (MARATHI) SEMESTER:V MONTH: JUNE ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT HISTORICAL BACKGROUND OF MAHARASHTRA

PAPER VI **UNIT I ,TITLE**	**SUBJECT TOPICS** **POLITICS OF MODERN MAHARASHTRA**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
HISTORICAL BACKGROUND	1.1 Introduction, Historical Background	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Social Reforms Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.3 The Nationalist Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	Lecturer Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT Sub- Regionalism.

PAPER VI, UNIT II , TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Sub-Regionalism -Regional Disparities & Development	2.1 Profile of Maharashtra	5	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	CHALK AND TALK
	2.2 western Maharashtra	6	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	Lecture Method
	2.3.Konkan,Mumbai City,Marathwada, Vidarbh		Maharashtrache Shasan Aani Rajkaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: II

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: AUGUST

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT Conflict peace and Security

PAPE VI ,, UNIT III, TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	3.1 State Legislature: Composition and functions.	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

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POLITICAL INSTITUTINS IN MAHARASHTRA	3.2 State Executive:Governor,Chief Minister, Council and Ministers	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 Judiciary:High Court and Subordinate Courts	3	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	

TOTAL NUMBER OF LECTURES ALLOCATED TO TH

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N .SHIRSAT DEPARTMENT: POLITICSCIENCEVI-CLASS: TYBA (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CASTE AND POLITICS IN MAHARASHTRA

PAPER VI,UNIT IV TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
aste and Politics in arashtra	4.1. Historical Background of caste based Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.2.Caste Dimension of Maharastra Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

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	4.3.Dominant Caste Politics, The OBC, The Dalit Politics	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 1

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-V CLASS: TYBA Marathi SEMESTER: VI MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT FOREIGN POLICY

PAPER VI,UNIT I TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA .	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Economy of Maharastra	1.1.The Business class in Maharashtra	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Chambers of Commerce and Industry	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture method
	.3.Co-operation and Politics,Land issues-Urban and rural	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN:NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI SEMESTER: VI

MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POLITICAL PARTIES IN MAHARASHTRA

PAPER VI, UNIT II TITLE	**SUBTOPICS** **DETERMINANTS OF POLITICS OF MAHARASHTRA**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Political parties	2.1Indian National Congress,Nationalist Congress party	3	*I* Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	2.2 Bhartiy Janata Party,Republic partiya of India	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method
	2.3 Shiv Sena and Maharashtra Navnirman sena Coalition Politics	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE H.O.D.

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF, ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE. CLASS: TYBA (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONTEMPORARY ISSUES AND MOVEMENT

PAPER VI , UNIT III, TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CONTEMPORARY ISSUES AND movement	3.1 Tribal Issues	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture method
	3.2 Farmers Movements and agitations	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S:Thelearners will be able to: TO LEARN ABOUT CIVIL SOCIETY.

PAPER IV, UNIT III TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Civil society Initiatives and Alternative Methods of Development	4.1Civil society Initiatives in India and Maharashtra	3	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.2 movement for the Right to Information in Maharashtra	2	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.3 Initiatives for the protection of environment	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: Unit I : Theory of Communication	Concept of Communication · Meaning · Definition · Process · Need · Feedback · Emergence of Communication as a key concept in the Corporate and Global world	05	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional	Google classroom, PPT, blackboard, youtube

			Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971.	

			13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Communica tio n at the Workplace	i. Channels of Communicatio n (03) Formal and Informal – Vertical, Horizontal, Diagonal and Grapevine ii. Methods of Communicatio n (05) Semester III: Applied Component: Paper-I Total Credits: 02 Course Title: Business Communicatio n Verbal, Non Verbal and Visual (including Kinesics, Para Language, Proxemics, Silence, Sign, Signal and Symbol) iii. Business Etiquette (04) Office Etiquette, Internet	29	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Managemen t, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondenc e and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S.	Google classroom, PPT, blackboar d, youtube

		Etiquette / Netiquette, Business Card Etiquette, Handshake Etiquette, Mobile Phone Etiquette iv. Barriers to Communication and Ways to Overcome Them (06) Physical or Environmental, Semantic or Language, Psychological and Cross-Cultural Barriers Ways to Overcome these Barriers v. Listening (04) What is Listening? The Listening Process Importance of Good Listening How to Develop Effective Listening Skills Obstacles to Listening ii. vi. Business Ethics (07) What is Ethics? Business Ethics? Importance of Business Ethics at Workplace Digital Ethics Environmental Ethics Ethics in International Business		Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and	

	Corporate Social		Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah.	

	Responsibility		Improving Business Communicati on Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today- Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 29

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students.
- To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: New Media in Communica tio n	· Impact of Technology Enabled Communica tio n · Video Conference: Skype, Google Meet, Go-To Meeting and Jio-Meet · Social Media: WhatsApp, Twitter, Facebook, Instagram, Telegram and Blog	07	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class	Google classroom, PPT, blackboard, youtube

			Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata	

			McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

Dr. Zeba Siddiqui Dr. Vidya Verma Signature of the Staff Signature of the HOD

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VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Business Correspond en c	i. Theory of Business Letter Writing · Principles of Effective Letter Writing · Parts of a Business Letter · Layout of a Business Letter (Full Block) ii. Personnel Corresponden ce Job Application Letter and Resume Letter of Recommendati o n Letter of Appointment Letter of Acceptance of Job Offer Letter of Appreciation Letter of Resignation	14	1. Agarwal, Anju D. A Practical Handbook for Consumers. India Book House, 1989. 2. Ashley, A. A Handbook of Commercial Correspondence. Oxford UP, 1992. 3. Aswalthapa, K. Organizational Behavior. Himalaya Publication, 1992. 4. Atreya, N. and Guha. Effective Credit Management. MMC School of Management, 1994. 5. Bah, J.C. and Nagamia S.M. Modern Business Correspondence and Minute Writing. N.M. Tripathi Pvt., 1974. 6. Balan, K.R. and Rayudu, C.S. Effective Communication. Beacon Books, 1996. 7. Bangh, L. Sue, Fryar, Maridell and Thomas David A. How to Write First Class Business Correspondence. N.T.C. Publishing Group USA, 1998. 8. Banerjee, Bani P. Foundation of Ethics in Management. Excel Books, 2005. 9. Bakar, Alan. Making Meeting Work. Sterling Publication Pvt., 1993. 10. Basu, C.R. Business	Google classroom, PPT, blackboard, youtube

			Organization and Management. Tata McGraw-Hill, 1998. 11. Benjamin, James. Business and Professional Communication Concept and Practices. Harper Collins College Publishers, 1993. 12. Bhargava and Bhargava. Company	

			Notices, Meetings and Regulations. Taxman Publication, 1971. 13. Black, Sam. Practical Public Relations. E.L.B.S. London, 1972. 14. Britt, Deborah. Improving Business Communication Skills. Kendall Hunt Publishing, 1992. 15. Bovee Cortland, L. and John V. Thrill. Business Communication Today. Taxman Publication, 1989. 16. Burton, G. and Thakur. Management Today Principles and Practices. Tata McGraw Hill, 1995. 17. Darrow, Richard, Forrstal, Dan and Coolman, Audrey. Public Relations Handbook. The Dartwell, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

Dr. Zeba Siddiqui Dr. Vidya Verma Signature of the Staff Signature of the HOD

Vishnu Waman Thakur Charitable Trust

Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Business Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English CLASS: _FYBcom SEMESTER: _1 MONTH: August ACADEMIC YEAR: __2022- 2023

Learning Objectives

- To build up comprehensive understanding of business correspondence and conditions.
- To create influential oral, written and practical skills among students. ● To develop the powerful utilization of communication technologies.
- To equip students with the career skills such as collaborative working at workplace, interviews, etc

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 5: Paragraph Writing and Book Review	i. Paragraph Writing Developing an idea, using appropriate linking devices, etc. Cohesion and Coherence, etc. ii. Book Review Steps in writing a book review: Introduction, Summary,	05		Google classroom, PPT, blackboard, youtube

	Opinion and Conclusion Recommended Books are: The Wings of Fire by Dr. APJ Abdul Kalam, Bhujia Barons: The Untold Story of How Haldiram Built a 5000 Crore Empire by Pavitra Kumar and The 7 Habits of Highly Effective People by Stephen Covey			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

Dr. Zeba Siddiqui Dr. Vidya Verma

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 1: Unit I Evolution of Different Media and the Contempo rar y Context	A) Beginnings of mass media in India B) Technologica l milestones and changing trends from conventional to digital media C) Role of media in national developme nt D) Reach of media (regional and demograp hic coverage)	10	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011.	Google classroom, PPT, blackboard, youtube

			11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media.	

			New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Television	A) Major formats of TV programmes B) Television and its impact on Indian families C) Television and consumerism D) Television and surveillance E) Reality Television	15	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and	Google classroom, PPT, blackboard, youtube

			Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

Signature of the Staff Signature of the HOD

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: Media related Issues and Laws in India	A) Freedom of expression and Censorship B) Relationship between media and government C) Media objectivity, media bias, and political leanings D) Trial by media and media ethics (Television and Print) E) Objectionable advertising F) Information technology (IT) Acts related to media G) Major laws in India related to media	20	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015. 6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life:	Google classroom, PPT, blackboard, youtube

			An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis. Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Mass Communication

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1.To introduce some major aspects of communication, mass communication processes, crucial mass media theories and mass communication industries

2. To develop a broad perspective of the past and the present status of mass media in India

3. To comprehend different types of Mass Media and gain a critical understanding of the impact of mass media on Indian history, society and culture

4. To develop critical awareness of the ethics and ideologies in mass media products 5. To understand the mass media laws in India, and how these laws shape the media practices 6. To introduce students to the application of social media

7. To identify various careers opportunities in media industry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 4: Functions of Media Personnel and Careers in Media	A) Cyber Journalism B) Editors C) Translators D) Copywriters E) Role of Radio Jockey/Video Jockey F) Blogging G) Writing jingles H) Voice-over Artists I) Public Relations specialists J) Advertising/marketin g specialists K) Script writers L) Newsreaders M) Researchers/Writers N) Music specialists O) Social media specialist	15	1. Acharya A.N. Television in India: A Sociological Study of Policy and Perspectives. New Delhi: Manas Publications, 1987. 2. Ahuja B.K. Mass Media Communication: Theory and Practices. New Delhi: Saurabh Publishing House, 2010. 3. Ahuja B. N. History of Press., Press Laws and Communications. New Delhi: Surjeet Publications, 1988. 4. Arceneaux, Noah, and Kavoori Anandam (Eds.). The Mobile Media Reader. Peter Lang Publishing, 2012. 5. Baghel, Sanjay Singh (Ed.). Social Media and Indian Youth. New Delhi: Apple Books, 2015.	Google classroom, PPT, blackboard, youtube

			6. Battaglia, Giulia. Documentary Film in India: An Anthropological History. Oxon: Routledge, 2018. 7. Black, Sam. Practical Public Relations. London: E.L.B.S, 1972. 8. Chatterji, P.C. Broadcasting in India. (Second Ed.). New Delhi: Sage, 2000. 9. Folkerts Jean and Stephen Lacey. The Media in Your Life: An Introduction to Mass Communication (Third Ed.). Pearson Education, 2004. 10. Guha Thakurta, Paranjoy. Media Ethics: Truth, Fairness, and Objectivity. (Second Ed.). New Delhi: Oxford University Press, 2011. 11. Hasan, Seema. Mass Communication: Principles and Concepts. CBS Publishers, 2010. 12. Joseph M.K. Freedom of the Press. New Delhi: Anmol Publication, 1997. 13. Joshi Uma. Textbook of Mass Communication and Media. New Delhi: Anmol Publications, 2002. 14. Kamath. M V. Professional Journalism. New Delhi: Vikas Publishing House, 1980. 15. Kumar, Keval. Mass Communication: A Critical Analysis.	

			Mumbai: Vipul Prakashan, 2002. 16. Menon, P. K. Practical Journalism. Jaipur: Aavishkar Publishers, 2005.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: 16th to 18th Century English Literature

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives

1) To introduce students to English Literature of the 16th, 17th and 18thcenturies. 2) To show them how background influences shaped the writer's thinking.

3) To present them to the literary masters who dominated the scene

4) To familiarize students with different writing styles that each age adopted.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED
Unit 1: Background and Important Concepts:	1)Neo-Classical Period (1700-1798) i) Neo Classical/Augustan ii) Age of Satire iii) Rise of the Periodical Essay and the Novel	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3	Google classroom, PPT, blackboard

			(Penguin, 1990) 4. Keast, William B. Seventeenth Century English	

			Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983). 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

Dr Zeba Siddiqui

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD /
				ICT TOOLS USED

Unit 2:	John Dryden: All for Love	20	1. Alpers, Paul E. Elizabethan Poetry: Modern Essays in Criticism (OUP: 1967) 2. Daiches, David. A Critical History of English Literature (Secker and Warburg: London, 1960) 3. Ford, Boris Ed. The New Pelican Guide to English Literature: The Age of Shakespeare Vol. 2 (Penguin, 1993) From Donne to Marvell Vol. 3 (Penguin, 1990) 4. Keast, William B. Seventeenth Century English Poetry: Modern Essays in Criticism (OUP: 1971) 5. King, Bruce. Seventeenth Century English Literature(Macmillan:1983) . 6. Leggatt, Alexander. English Drama: Shakespeare to The Restoration 1590- 1660 (Longman: Literature in English Series, 1988) Perfitt, George. English Poetry of the Seventeenth Century (Longman: Literature in English Series,1992) 8. Parry, Graham.The Seventeenth Century: The Intellectual and Cultural Context of English Literature. 1603-1700 (Longman: Literature in English Series, 1989) 9.Pooley, Roger. English Prose of the Seventeenth Century (Longman: Literature in English Series, 1992) 10.Ricks, Christopher. The Penguin History of English Literature Vol.3. (Penguin, 1993) 11. Roston, Murray. Sixteenth Century English Literature (Macmillan, 1983) 12. Baugh, Albert C. A	Google classroom, PPT, blackboard

			Literary History Of England, The Restoration and Eighteenth Century (1660-1789), 2nd Edition, (London, Routledge and Kegan Paul, 1967	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Dr. Zeba Siddiqui

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Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

Course: Grammar and Art of Writing

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _TYBA SEMESTER: _6 MONTH: Feb ACADEMIC YEAR: __2022- 2023

Learning Objectives:

1. To develop amongst learners an insight into the process of word formation and transformation

2. To develop amongst them an insight into the sounds, stress patterns and intonations in the English language to improve their speaking skills

3. To develop among them an insight into the structure of the English language and to provide knowledge of the rules of grammar

4. To help them learn grammatical analysis and description and the skills of sentence transformation 5. To introduce the mechanics of writing for effective writing for various domains

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTE	REFERENCE/S	TEACHING METHOD /

		D		**ICT TOOLS USED**

Unit 1: Grammar	I. Clauses: · Clause elements and subject – verb concord · Basic clause patterns · Types of clauses : finite – non-finite (tensed – tenseless), independent – dependent (Main – Subordinated) · Kinds of subordinate clause : Noun clause, Prepositional Clause , Relative clause , Adverb Clause, Comparative Clause · Co-ordinated Clauses II. Sentences: · Basic and Derived structures Following rules to be studied – Fronting, Inversion, Passive reconsideration , Substitution of PP for Indirect	20	1. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 2. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 3. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 4. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 5. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 6. Kleiser, Grenville. The Art of Writing. New Delhi: A P H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 7. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 8. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975	Google classroom, PPT, blackboard

	Object, Tag Questions, Postponement of the postmodifier, Cleft Sentence, Existential		9. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge,		

	Sentence and Extraposition.		Taylor & Francis Group, 2010 18. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

Vidya verma

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 2: Art of Writing	Mechanics of Writing 05 lectures · Characteristics of typical writing and typical speech · Cohesion and Coherence · Correct use of Articles, Prepositions, Adverbs, Adjectives · Common Errors – Grammatical, Syntactical, Lexical, Punctuation, Logical · Writing a	15	10. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 11. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 12. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 13. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 14. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 15. Kleiser, Grenville. The Art of Writing. New Delhi: A P	Google classroom, PPT, blackboard

	Thesis Statement Rhetorical Structures 10 lectures · Classification, Comparison – Contrast, Cause – Effect, Chronological and Spatial Ordering, Order of Importance, Statement and Elaboration, Restatement, Exemplification , Listing · Understanding connotations, Using bias-free language, Avoiding jargon and archaic/ outdated language, Eliminating repetition and redundancy, Content Analysis, and Rhetorical Device		H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 16. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 17. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975 18. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge, Taylor & Francis Group, 2010 18. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya Verma

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD / ICT TOOLS USED

Unit 3: Types/ Domains of Writing	Argumentative / reflective writing · Analytical writing · Creative / Figurative writing · Advertisement /Body Copy writing	10	19. Leech, Geoffrey, Deuchar, Margaret and Hoogenraad, Robert, English Grammar for Today: A New Introduction. London: Macmillan, 1973 20. Quirk, R. and Greenbaum. S. A University Grammar of English, Longman, 1973 21. 2 Rajimwale, Sharad. Elements of General Linguistics, Vol. I, New Delhi: Rama Brothers 22. 3 Varshney, Dr. R.L. An Introductory Text Book of Linguistics and Phonetics, New Delhi: Prakash Book Depot 23. Payne, Lucile Vaughan. The Lively Art of Writing. New York: Mentor, 1969 24. Kleiser, Grenville. The Art of Writing. New Delhi: A P H, 2011 3. Trimble, John R.Writing with Style, Conversations on the Art of Writing. New Jersey: Prentice Hall, 1975 25. Bailey, Stephen. Academic Writing: A Handbook for International Students. New York: Routledge , 2011 5. Huddleson, Rodney and Pullum, Geoffrey. A Student's Introduction to English Grammar. New Delhi: Cambridge University Press, 2005 26. Leech, Geoffrey and Svartvik, Jan. A Communicative Grammar of English. New York: Routledge, 1975	Google classroom, PPT, blackboard

			27. Simpson, Paul and Mayr, Andrea. Language and Power: A Resource Book for Students.Routledge,	

			Taylor & Francis Group, 2010 18. 28. Mohan, Krishna and Raman, Meenakshi. Advanced Communicative English: A Comprehensive Course for Undergraduate Learners. New Delhi: Tata McGraw Hill Education Private Limited, 2010	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Vidya Verma

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Vishnu Waman Thakur Charitable Trust Bhaskar
Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr. Zeba Siddiqui DEPARTMENT: _English (Arts) CLASS: _SYBA SEMESTER: _4 MONTH: Feb ACADEMIC YEAR: __2022- 2023

English II: Introduction to Drama

Learning Objectives:

1. Develop interest and passion for Western and Indian drama and its theatre 2. Be familiarized with salient elements and characteristics of drama. 3. Develop analytical skills and critical thinking through close reading of multidimensional dramas. 4. Be able to appreciate holistic understanding of the multifarious themes, issues and complexities portrayed by the renowned playwrights.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Terms and concepts	Types of Drama (based on form, content, function, theme, style): Interlude, Chronicle Plays, Mystery Plays, Miracle Plays, Morality Plays, Romantic	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms	Google classroom, PPT, blackboard

	Comedy, Comedy of Humours, Restoration Comedy of		in Literary Theory. Continnum International, 2012.	

	Manners, Sentimental Comedy, Senecan Plays or Revenge Plays, History Plays, Heroic Drama, Blank Verse Drama, Poetic Drama / Verse Drama, Drama of Ideas / Problem Play, Expressionist Plays, Epic Theatre, Absurd Plays, Plays by Angry Young Men, Kitchen Sink Drama, Theatre of Cruelty, Comedy of Menace, Dalit Theatre		6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O'Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

Signature of the Staff Signature of the HOD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTUR ES ALLOTE	REFERENCE/S	TEACHIN G METHOD /

		D		**ICT TOOLS USED**

Unit 2: Play/Drama	Lorraine Hansberry: A Raisin in the Sun	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms in Literary Theory. Continnum International, 2012. 6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O'Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to	Google classroom, PPT, blackboard

			Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu	

			Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Dr. Zeba Siddiqui Dr. Vidya Verma

Signature of the Staff Signature of the HOD

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3: Play/drama	David Williamson The Removalists	15	1. Hansberry, Lorraine. A raisin in the sun, PDF Drive, 2011. 2. Gajvi, Premanand. Kirwant, Seagull Books, n.d. 3. Keith, A. Berriedale, The Sanskrit Drama: In its Origin, Development Theory & Practice. Oxford UP, 1998. 4. Kennedy X. J. and Dana Gioia. An Introduction to Fiction, Poetry, and Drama. HarperCollins College Publishers Inc., 1995. 5. Klages, Mary. Key Terms in Literary Theory. Continnum International, 2012.	Google classroom, PPT, blackboard

			6. Krasner, David. A History of Modern Drama. Volume I, Wiley-Blackwell, 2012. 7. McClinton-Temple, Jennifer. Encyclopaedia of Themes in Literature. Facts on File Inc., 2006. 8. Michael. A History of English Literature. Palgrave Macmillan, 2000. 9. Naik, M. K. A History of Indian English Literature. Sahitya Akademi, 2009. 10. Nicoll, Allardyce. The Theory of Drama. Doaba Publications, 1998. 11. O’Neil, Eugene. The Hairy Ape. Good Press, 2019. 12. Prasad, Birjadish. Background of the Study of English Literature. Macmillan, 1999. 13. Pritner, Cal, and Scott E. Walters. Introduction to Play Analysis. Waveland Press, 2017. 14. Quinn, Edward. A Dictionary of Literary and Thematic Terms. Facts on File Inc., 2006. 15. Rakesh, Mohan. Halfway House. Translated by Bindu Batra. Worldview Publications, 1999.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Vidya Verma

Dr. Zeba Siddiqui Dr. Vidya Verma

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Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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BhaskarWaman Thakur College of Science
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT III, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

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BhaskarWaman Thakur College of Science
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
EXICATIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

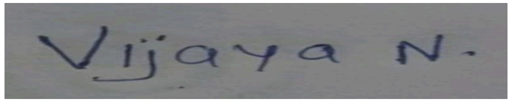
TEACHING PLAN (UNIT PLAN)

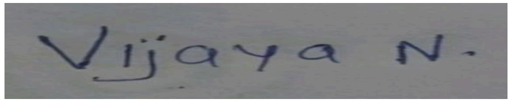
NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED





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	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
SOCIAL DYNAMICS	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

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SIGNATURE OF THE STAFF

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Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT IV, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
CHALLENGES TO NATIONAL SECURITY	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL SYSTEM**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT III, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

Vijaya N.

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
EXICATIVE	4.3 LOCAL SELF-GOVERNMENT – 73^{rd} 74^{th} AMENDMENTS AND THEIR IMPLEMENTATION			

Vijaya N.

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Vijaya N.

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT IV, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: AUGUST ACADEMIC YEAR: 2022-23

PAPER I , UNIT I, TITLE	**SUBTOPICS INDIAN POLITICAL SYSTEM**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
THE CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	Bhartache Shasan Ani Rajakaran. B.B.Patil	CHLK AND TALK
	1.2 PREMABLE	4		
	1.3 BASIC FEATURES	4		

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

T The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF AUGUST POLITICALSCIENCE.**TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	SUBTOPICS INDIAN POLITICAL SYSTEM	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK

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VIVA COLLEGE, Virar (W)

	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: OCTOBER ACADEMIC YEAR: 2022-23

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Yashvant KeshavPatil College of Commerce
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT III, TITLE	**SUBTOPICS INDIAN POLITICAL SYSTEM**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 JUDICIAL ACTIVISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_____ **TEACHING PLAN (UNIT PLAN)**

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT IV, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
EXICATIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	11	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73^{rd} 74^{th} AMENDMENTS AND THEIR IMPLEMENTATION			

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER:II MONTH: DECEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT I, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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VIVA COLLEGE, Virar (W)

CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF:ASST PROF VIJAYA NARAYANRAO SHIRSAT

DEPARTMENT:POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 202-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNIT II, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT

POLITICAL-SC CLASS: FYBA(MARATHI) SEMESTER:II MONTH:FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I, UNITIII, TITLE	SUBTOPICS INDIAN POLITICAL PROCESS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	3	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:FYBA(MARATHI) SEMESTER: II MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER I , UNIT IV, TITLE	**SUBTOPICS INDIAN POLITICAL PROCESS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	
	4.3 GLOBAL TERRORISM	4	Bhartache Shasan Ani Rajakaran.B.B.Patil	

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VIVA COLLEGE, Virar (W)

TEACHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Public Administration	1.1. Meaning, Scope and Significance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.2. Evolution of Public Administration as a Discipline	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.3. Human Relations Theory- Elton Mayo	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TECHING PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS- SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Contemporary Techniques & Practices in Administration	.1.Good Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3. Public-Private Partnership (PPP)	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN AFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LI /E/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Indian Administration	.1.Evolution and Constitutional Context	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

Klpatil.

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ancial Administration	1. Budgetary Process	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.Comptroller and Auditor General	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: PROF. DEPARTMENT: POLITICAL-SCIENCE CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN AB NISTRATION OF INDIA

PAPER, UNIT, TITLE	OPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ntemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	4	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	4.2. Citizen and Administration	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.3.Citizens' Charter	3	*Public Administration*, Tata McGraw hill,	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

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VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

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	2.3 State, Civil So	4	Jadhav T. Rajneetishastra Parichay	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

PAPER, UNIT, TITLE	[illegible]S	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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SIGNATURE OF THE H.O.D.

Vishnu Waman Thakur Charitable Trust
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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF … MAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners … RN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	S	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLA HE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.2 Fascism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JUNE&JULY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Verma, S.P., Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Verma, S.P., Modern Political Theory	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALL HE UNIT: 11

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

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SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	3.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: OCTOBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	S	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	4.1 Concept of Law	4	Political Theory, Pearson	CHALK AND TALK
	4.2 Political Obligation	4	Political Theory, Pearson	CHALK AND TALK
	4.3 Right to Resist	4	Political Theory, Pearson	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PL THE STAFF: PROF KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV M EC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINIST DIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	1.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	1.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	1.3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Basic Political Values	2.1 Liberty	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.2 Equality	4	Verma, S.P., Modern Political Theory	CHALK AND TALK
	2.3 Justice	4	Verma, S.P., Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Democracy	3.1 Theories of Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Uchhatar Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Uchhatar Adhunik Rajakiya	CHALK AND TALK

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				Siddhanth, Vidya Books Publishers	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (ENGLISH) SEMESTER: IV MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

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	4.2 Fascism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK
	4.3 Feminism	4	Citizenship: Dialogues and Perception, Sage Publications	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER:V MONTH: AUGUST ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT POLITICAL PROCESS IN MODERN MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV POLITICAL PROCESS IN MODERN MAHARASHTRA	1.1.Historical Background	10	Indian Government and politics. B.B.Patil.	EXPLANATION
	1.2. Social Reforms movement			
	1.3. Formation of the sangita Mahrshtra			

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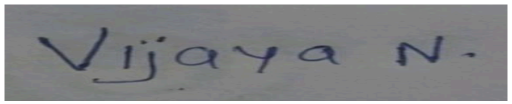
Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

TOTAL NUMBER OF LECTURES ALLOC O THE UNIT: 10

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V MONTH: SEPTEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT World Sub -Regionalism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Sub_ Regionalism	2.1.Sub-Regionalism	10	Indian Government and politics. B.B.Patil.	lecture method
	2.2. Regional Disparities			
	2.3.Post-And Development			



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SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

Vijaya N.

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: OCTOBER ACADEMIC YEAR: 2021-22LEARNING OBJECTIVE/S:

The learners will be able to : TO LEARN ABOUT political Institutions in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 3. Political Institutions in Maharashtra	3.1. State legiskature	O8	Indian Government and politics B.B.. Patil	
				EXPLANATION

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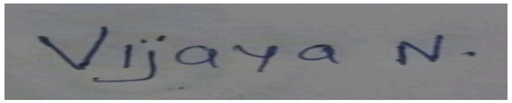
	3.2. State executive:Gc hief Minister,Councils and Ministers			
	3.3,Judiciary: High Court and subordinate Courts			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____o8______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: TYBA(ENGLISH) SEMESTER:III MONTH: NOVEMBER+DECEMBER_ ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT Cast and politics in Maharashtra.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Cast and Politics	4.1.Historical Background of caste based politics	10	Indian Government and	Lecture Method



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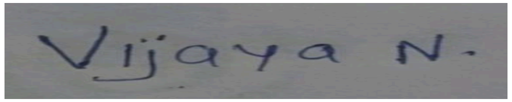
in Maharashtra			politics. B.B.Patil.	
	4.2. Cast dimensions of Maharashtra Politics			
	4.3. Dominant cast politics:OBC,Dalit			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___10_______



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH)_SEMESTER: V MONTH: JUNE& JULY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Politics Paper VI A: Political Process in Modern Maharashtra Semester V: Politics of Modern Maharashtra	1.1 Evolution of the idea of Maharashtra 1.2 Nationalist Movement and Social Reform Movement 1.3 Sanyukta Maharashtra Movement	11	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

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Module 1: Historical Background				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __11________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: V_MONTH: AUGUST ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2: Sub-regionalism, Regional Disparity and Development	2.1 Konkan, Marathwada &Vidarbha 2.2 Dandekar Committee Report 2.3 Statutory Development Boards	12	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT_DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:V MONTH:SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Module 3: Political Institutions in Maharashtra	3.1 State Legislature: Composition and Functions 3.2 Chief Minister and Council of Ministers: Role 3.3 High Court and Subordinate Courts	12	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _12________

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER:V MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 4: Caste and Politics in Maharashtra	4.1 Dominant Caste Politics 4.2 Dalit Politics 4.3 OBC Politics	10	Phatak, Anagha: *Political Process of Maharashtra*	MAP CHALK & TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: VI_MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Politics Paper VIA : Political Process in Modern Maharashtra Semester VI: Determinants of Politics of Maharashtra Module 1 : Political Economy of Maharashtra	1.1 Business and Politics 1.2 Politics of Cooperatives 1.3 Land issues: Urban and Rural	12	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION EXPLANATION

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF::PROF VIJAYA SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:TYBA(ENGLISH) SEMESTER: VI_MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
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	2.1 Indian National Congress (I), Nationalist Congress Party and BharatiyaJanata Party	12		CHALK & TALK
	2.2 Republican Party of India, Peasants and Workers Party, Shiv Sena and Maharashtra MNS		Phatak, Anagha: *Political Process of Maharashtra*	
Rural **Module 2 : Political Parties**	2.2 Coalition Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______12____

TEACHING PLAN (UNIT PLAN)

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF:P:PROF VIJAYA SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: TYBA(ENGLISH) SEMESTER: VI_MONTH: FEBRUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 3 : Contemporary issues and movements	3.1 Tribal issues 3.2 Farmers movements and agitations	10	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION CHALK AND TALK

Vijaya N.

Vijaya N.

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __10________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF :PROF VIJAYA SHIRSATT: POLITICAL –SC CLASS:TYBA(ENGLISH)_SEMESTER:VI MONTH:MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : LEARN ABOUT THE POLITICAL PROCESS OF MAHARASHTRA

Vijaya N.

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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NAAC accredited "B" Grade, 2.69 CGPA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 4 : Civil society initiatives and alternative models of development	4.1 Civil society - Concept and nature 4.2 Movements for the right to information in Maharashtra 4.3 Initiatives for protection of environment	11	Phatak, Anagha: *Political Process of Maharashtra*	DISCUSSION

Vijaya N.

Vijaya N.

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NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _11_________

Vijaya N.

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SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

Vijaya N.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Module 2. Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			
	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

Vijaya N.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

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SIGNATURE OF THE H.O.D.

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MESTER IV - INDIAN ADMINISTRATION **ule 1. Introduction to Indian Administration**	1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	2.Salient features			
	3. District Administration since Independence: Changing role of District Collector			

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SIGNATURE OF THE H.O.D.

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK

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	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
	raining: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Vijaya N.

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			
odule3. Financial Administration	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			

Vijaya N.

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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	.3.Citizens’ Charter			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

Vijaya N.

SIGNATURE OF THE STAFF

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BhaskarWaman Thakur College of Science
YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:III MONTH:JUNE&JULY ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III - PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline			
	1.3. Public Administration in the Age of Liberalisation, Privatisation			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

Vijaya N.

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: III MONTH: AUGUST_ ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 2. Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	10	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	2.2. Bureaucratic Theory- Max Weber			
	2.3. Human Relations Theory- Elton Mayo			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:

Vijaya N.

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VIVA COLLEGE, Virar (W)
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The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 3. Basic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	12	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland			EXPLANATION
	.3,Leadership Theories- Trait theory, Contingency theory			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICA- SC CLASS: SYBS(ENGLISH) SEMESTER:III MONTH: OCTOBER_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

Vijaya N.

SIGNATURE OF THE STAFF

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Late Shri. Vishnu Waman Thakur Charitable Trust
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The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
lule 4. Contemporary Techniques and Practices in Administration	.1.Good Governance	11	*Public Administration*, Tata McGraw hill,	CHALK AND TALK
	.2. E-Governance			
	.3. Public-Private Partnership (PPP)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER: IV MONTH:NOVDEC ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
IESTER IV - INDIAN ADMINISTRATION **le 1. Introduction to Indian Administration**	1.Evolution and Constitutional Context	11	*Public Administration*, Tata McGraw hill,	EXPLANETION
	2.Salient features			
	3. District Administration since Independence: Changing role of District Collector			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR DEPARTMENT: POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:JANUARY ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Module 2. Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	11		EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission			
	raining: All- India Services, Central Services, State Services (Maharashtra)		*Public Administration*, Tata McGraw hill,	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:PROF ISHITA MAJUMDAR_DEPARTMENT:POLITICAL-SC CLASS:SYBA(ENGLISH) SEMESTER:IV_MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule3. Financial Administration	1. Budgetary Process	12	*Public Administration*, Tata McGraw hill,	DISCUSSION CHALK & TALK
	2.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings			

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	3.Comptroller and Auditor General			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS: SYBA(ENGLISH) SEMESTER: IV MONTH:MARCH ACADEMIC YEAR2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
odule 4. Contemporary Issues in Indian Administration	1. Integrity in Administration: Lokpal, Lokyukta, CVC	11	*Public Administration*, Tata McGraw hill,	CHALK ABD TALK
	4.2. Citizen and Administration			
	.3.Citizens’ Charter			

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SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF Dr.ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER:I MONTH: NOVEMBER ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN POLITICAL SYSTEM. **THE** CONSTITUTIONAL FRAMEWORK INTRODUCTION TO THE CONSTITUTION	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	O4	Indian political system ,B.B.Patil.	CHLK AND TALK
	1.2 PREMABLE			
	1.3 BASIC FEATURES			

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited “B” Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __04_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDARDEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) :I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	06	Indian political system ,B.B.Patil.	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32			
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __06_______

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VidhyaDayanandPatil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION			
	3.3 JUDICIAL ACTIVISM			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04_____ **TEACHING PLAN (UNIT PLAN)**

NAME OF THE STAFF: ASST PROF ISHITA MAJUMDAR DEPARTMENT:POLITICAL-SC CLASS:FYBA(ENGLISH) SEMESTER: I MONTH: DECEMBER ACADEMIC YEAR: 2021-22

LEARNING OBJECTIVE/S:
The learners will be able to : TO TEACH THE BESIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EXECUTIVE	4.1 UNION EXECUTIVE - THE PRESIDENT	04	Indian political system ,B.B.Patil.	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS			
	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____04______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I

MONTH: JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
THE CONSTITUTIONAL FRAMEWORK	1.1 BRIEF HISTORY OF THE MAKING OF CONSTITUTION	4	1. Basu, Durga Das, Introduction to the Constitution of India, Lexis Nexis, 2012.	CHLK AND TALK
	1.2 PREMABLE	4	2. Laxmikant, M, Indian Polity, TMH, 2015.	CHLK AND TALK
	1.3 BASIC FEATURES	4	3. Laxmikant, M., Governance in India, TMH, 2015.	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CITIZENS AND THE CONSTITUTION	2.1 FUNDAMENTAL RIGHTS – ARTS 14 TO 19	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.2 FUNDAMENTAL RIGHTS –ARTS- 20 TO 32	3	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK
	2.3 DIRECTIVE PRINCIPLES OF STATEPOLICY	4	Basu, Durga Das, Introduction to the Constitution of India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

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SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL: POLITICAL-SCIENCE CLASS: FYBA(ENGLISH) SEMESTER: I MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
LEGISLATURE AND JUDICIARY	3.1 PARLIAMENT	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 JUDICIAL SYSTEM – ORIGINAL AND WRIT JURISDICTION	4	Laxmikant, M., Governance in India,	CHLK AND TALK
	3.3 JUDICIAL ACTIVISM	3	Laxmikant, M., Governance in India,	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: I MONTH: OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICALSCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	4.1 UNION EXECUTIVE - THE PRESIDENT	4	Laxmikant, M, Indian Polity, ,	CHLK AND TALK
	4.2 PRIME MINISTER AND COUNCIL OF MINISTERS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
EXECUTIVE	4.3 LOCAL SELF-GOVERNMENT – 73rd 74th AMENDMENTS AND THEIR IMPLEMENTATION	3	Laxmikant, M., Governance in India	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE STAFF

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SIGNATURE OF THE H.O.D.

Late Shri. Vishnu Waman Thakur Charitable Trust
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: NOV&DEC ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
TITLE: INDIAN POLITICAL PROCESS CHANGING NATURE OF FEDERAL SYSTEM	1.1 CENTRE-STATE RELATIONS WITH REFERENCE TO FISCAL AND EMERGNCY POWERS.	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.2 DEMAND FOR GREATER AUTONOMY	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	1.3 CHANGING DYNAMICS OF CENTRE-STATE RELATIONS	3	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PARTYPOLITICS AND ELECTIONS	2.1 NATIONAL PARTIES – FEATURES	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.2 REGIONAL PARTIES – CHARACTERISTICS	3	Laxmikant, M, Indian Polity	CHLK AND TALK
	2.3 ANALYSIS OF ELECTORAL PERFORANCE OF NATIONAL AND REGIONAL PARTIES SINCE 1989.	4	Laxmikant, M, Indian Polity	CHLK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BASIC CONCEPT OF POLITICAL SCIENCE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
SOCIAL DYNAMICS	3.1 CASTE (WITH REFERENCE TO RESERVATION)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.2 RELIGION (WITH REFERENCE TO COMMUNALISM)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	3.3 GENDER (WITH REFERENCE TO POLITICAL PARTICIPATION)	3	Laxmikant, M, Indian Polity	CHLK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF.KOMAL LAXMAN PATIL DEPARTMENT: POLITICAL-SCIENCE CLASS: FYBA (ENGLISH) SEMESTER: II MONTH: MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: LEARN THE BESIC CONCEPT OF POLITICALSCIENCE.

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Late Shri. Vishnu Waman Thakur Charitable Trust
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VidhyaDayanandPatil College of Arts
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CHALLENGES TO NATIONAL SECURITY	4.1 CRIMINALISATION OF POLITICS	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.2 INTERNAL THREATS TO SECURITY (WITH REFERENCE TO NAXALISM AND INSURGENCY)	4	Laxmikant, M, Indian Polity	CHLK AND TALK
	4.3 GLOBAL TERRORISM	4	Laxmikant, M, Indian Polity	CHLK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE CLASS:TYBA (MARATHI) SEMESTER:V MONTH: JUNE

ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT HISTORICAL BACKGROUND OF MAHARASHTRA

PAPER VI UNIT I ,TITLE	**SUBJECT TOPICS POLITICS OF MODERN MAHARASHTRA**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
HISTORICAL BACKGROUND	1.1 Introduction, Historical Background	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Social Reforms Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.3 The Nationalist Movement	4	Maharashtra Prashasan .Wa.Bha.Patil	Lecturer Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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VIVA COLLEGE, Virar (W)

TEACHING PLA AME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: JULY ACA -23 .LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT Sub- Regionalism.

PAPER VI, UNIT II , TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Sub-Regionalism -Regional Disparities & Development	2.1 Profile of Maharashtra	5	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	CHALK AND TALK
	2.2 western Maharashtra	6	Maharashtrache Shasan Aani Rajkaran.B.B.Patil	Lecture Method
	2.3.Konkan,Mumbai City,Marathwada, Vidarbh		Maharashtrache Shasan Aani Rajkaran.B.B.Patil	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: II

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL SCIENCE-VI CLASS: TYBA (MARATHI) SEMESTER: V MONTH: AUGUST

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: TO LEARN ABOUT Conflict peace and Security

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PAPE VI ,, UNIT III, TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
POLITICAL INSTITUTINS IN MAHARASHTRA	ure: Composition and functions	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 State Executive:Governor,Chief Minister, Council and Ministers	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	3.2 Judiciary:High Court and Subordinate Courts	3	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	

TOTAL NUMBER OF LECTURES ALLOCATED TO TH

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N .SHIRSAT DEPARTMENT: POLITICSCIENCEVI-CLASS: TYBA (MARATHI) SEMESTER: V MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CASTE AND POLITICS IN MAHARASHTRA

PAPER VI,UNIT IV TITLE	SUBTOPICS POLITICS OF MODERN MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
	4.1. Historical Background of caste based Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK

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...aste and Politics in ...arashtra	...n of Maharastra Politics	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.3.Dominant Caste Politics .The OBC, The Dalit Politics	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE-V CLASS: TYBA Marathi SEMESTER: VI MONTH: NOV-DEC ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT FOREIGN POLICY

PAPER VI,UNIT I TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA .	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Economy of Maharastra	1.1.The Business class in Maharashtra	4	Maharashtra Prashasan .Wa.Bha.Patil	CHALK AND TALK
	1.2 Chambers of Commerce and Industry	4	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture method
	3.Co-operation and Politics,Land issues-Urban and rural	4		Lecture Method

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Maharashtra
Prashasan.
.Wa.Bha.Patil

TOTAL NUMBER OF … CATED TO THE UNIT: 12

TEACHING PLAN:NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POLITICAL PARTIES IN MAHARASHTRA

PAPER VI, UNIT II TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political parties	2.1Indian National Congress,Nationalist Congress party	3	*I* Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK
	2.2 Bhartiy Janata Party,Republic partiya of India	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method
	2.3 Shiv Sena and Maharashtra Navnirman sena Coalition Politics	4	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture Method

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TOTAL NUMBER OF CATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN) NAME OF THE STAFF ASSISTANT PROFESSOR VIJAYA N SHIRSAT DEPARTMENT: POLITICAL-SCIENCE. CLASS: TYBA (MARATHI) SEMESTER: VI MONTH: FEBRUARY ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONTEMPORARY ISSUES AND MOVEMENT

PAPER VI , UNIT III, TITLE	SUBTOPICS DETERMINANTS OF POLITICS OF MAHARASHTRA	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
CONTEMPORARY ISSUES AND movement	3.1 Tribal Issues	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	Lecture method
	3.2 Farmers Movements and agitations	5	Maharashtrache Shasan Aani Rajkaran.B.B.Pati	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASSISTANT PROFESSOR VIJAYA N.SHIRSAT DEPARTMENT: POLITICAL-SCIENCE- CLASS: TYBA MARATHI) SEMESTER: VI MONTH: MARCH ACADEMIC YEAR: 2022-23.LEARNING OBJECTIVE/S:Thelearners will be able to: TO LEARN ABOUT CIVIL SOCIETY.

PAPER IV, UNIT III TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Civil society Initiatives and Alternative Methods of Development	4.1Civil society Initiatives in India and Maharashtra	3	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method
	4.2 movement for the Right to Information in Maharashtra	2	Maharashtra Prashasan. .Wa.Bha.Patil	CHALK AND TALK
	4.3 Initiatives for the protection of environment	1	Maharashtra Prashasan. .Wa.Bha.Patil	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6

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Vidhya DayanandPatil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI)SEMESTER: III MONTH: JUNE ACADEMIC YEAR: 2022-23LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT INTRODUCTION TO POLITICAL THEORY.

PAPER II , UNIT I , TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Political Theory	1.1 Definition and Scope of Political Theory	4	Dr.Patil Va.Bha.,Modern Political Theory	CHALK AND TALK
	1.2Approaches to the Study of Political Theory: Traditional	3	Dr.Patil Va.Bha.Modern Political Theory	CHALK AND TALK
	1.3 Approaches to the Study of Political Theory: Contemporary	3	Dr.Patil Va.Bha.Modern Political Theory	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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SIGNATURE OF THE STAFF

Vijaya N.

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TEACHING PLAN (UNIT PLAN)NAME [illegible] PROF.V[illegible] DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: JULY
ACADEMIC YEAR: 2022-2023.LEARNING OBJE[illegible] will be able to: TO LEARN ABOUT STATE,CIVIL SOCIETY & MARKET.

PAPER II , UNIT II, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
State, Civil Society & Market	2.1 State: Concept and Perspectives	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.2 Nation - State: Meaning and Changing Perceptions	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK
	2.3 State, Civil Society and Market	4	Jadhav T, Rajaneetishastra Parichay	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: AUGUST
ACADEMIC YEAR: 202-23LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT POWER,AUTHORITY AND LEGITIMACY.

PAPER II, UNIT III, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Power, Authority and Legitimacy	3.1 Power	4	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

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	3.2 Authority	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK
	.3 Legitimacy	3	Tijare, Peshwe, Adhunik Rajakiya Siddhanth	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT CONCEPT OF LAW AND POLITICAL OBLIGATION.

PAPER II, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Concept of Law and Political Obligation	.1 Concept of Law	4	Political Theory, Dr.Patil.Va.Bha.	CHALK AND TALK
	.2 Political Obligation	4	Political Theory , Dr.Patil.Va.Bha.	CHALK AND TALK
	.3 Right to Resist	4	Political Theory, Dr.Patil.Va.Bha.	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-2023 .LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT RIGHTS.

PAPER II, UNIT I, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Rights	.1 Meaning and Nature of Rights	4	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	.2 Theories of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK
	3. Classification of Rights	3	Rajakiya Siddhanthachi Tatve, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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NAME OF THE STAFF: ASST PROF.VIJAYA NAR DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI)DECEMBER: IV MONTH: JANUARY ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT Basic Political Values.

PAPER II, UNIT II, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Basic Political Values	2.1 Liberty	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	2.2 Equality	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	Lecture method
	2.3 Justice	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	Lecture Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI)JANUARY: IV MONTH: FEBRUARY ACADEMIC YEAR: 2022-202LEARNING OBJECTIVE/S: The learners will be able to: TO LEARN ABOUT DEMOCRACY

PAPER II, UNIT III, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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Democracy	mocracy	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.2 Principles of Liberal Democracy	4	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK
	3.3 Conditions for the Successful Working of Democracy	3	Adhunik Rajakiya Siddhanth, Vidya Books Publishers	CHALK AND TALK

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL SCIENCE-II CLASS: SYBA (MARATHI) FEBRUARY & MARCH: IV MONTH: MARCH ACADEMIC YEAR: 2022-2023.LEARNING OBJECTIVE/S:The learners will be able to: TO LEARN ABOUT POLITICAL IDEOLOGY.

PAPER II, UNIT IV, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Political Ideologies	4.1 Marxism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK
	4.2 Fascism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK
	.3 Feminism	4	Rajakiy Siddhantachi Multattve.	CHALK AND TALK

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IIIMONTH:JUNE&JULY ACADEMIC YEAR:2022-23.LEARNING OBJECTIVE/S: The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION

PAPER III, UNIT I, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PUBLIC ADMINISTRATION	1.1. Meaning, Scope and Significance	4	Lokprashasan B.B.Patil	CHALK AND TALK EXPLANATION
	1.2. Evolution of Public Administration as a Discipline	4	Lokprashasan B.B.Patil	EXPLANATION
	1.3. Public Administration in the Age of Liberalisation, Privatisation	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __12________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST. PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: III MONTH: JULY_ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT THEORIES OF ADMINISTRATION.

PAPER III, UNIT II. , TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Theories of Administration	2.1. Scientific Management Theory- F.W. Taylor	4	Lokprashasan B.B.Patil	CHALK AND TALK

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	2.2. Bureaucratic Theory- Max Web		Lokprashasan B.B.Patil	LECTURE METHOD
	2.3. Human Relations Theory- Elton Mayo	3	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10______

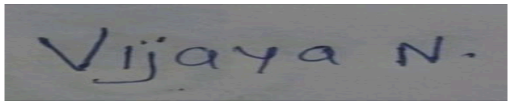
TEACHING PLAN (UNIT PLAN)

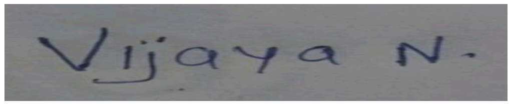
NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) AUGUST:III MONTH: SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT BASIC PRINCIPALS AND THEORIES OF ORGANISATION.

PAPER III, UNITIII, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
asic Principles and Theories of Organisation	3.1. Hierarchy, Delegation, Centralisation-Decentralisation	4	Lokprashasan B.B.Patil	CHALK AND TALK
	3.2. Motivation Theories- McGregor, Mc Clelland	4	Lokprashasan B.B.Patil	EXPLANATION
	3,Leadership Theories- Trait theory, Contingency theory	4	Lokprashasan B.B.Patil	EXPLANATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____12______





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TEACI PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICA- SC CLASS: SYBS(MARATHI) SEMESTER:III MONTH: SEPTEMBER ACADEMIC YEAR: 2012-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORAY TECHNIQURES AND PRACTICES IN ADMINISTRATION.

PAPER IV, UNIT IV, TITLE	SUBTOPICS PUBLIC ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Techniques and Practices in Administration	1.Good Governance	4	Lokprashasan Suvarna Benake	CHALK AND TALK
	2. E-Governance	4	Lokprashasan Suvarna Benake	LECTURE METHOD
	3. Public-Private Partnership (PPP)	3	Lokprashasan Suvarna Benake	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPER III, UNIT I, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
roduction to Indian Administration	1.Evolution and Constitutional Context	4	Lokprashasan B.B.Patil	EXPLANETION
	2.Salient features	3	Lokprashasan B.B.Patil	EXPLANETION

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	. District Administration since Independ ... ict Collector		Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT: POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT PUBLIC ADMINISTRATION OF INDIA

PAPERIII , UNIT II, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Personnel Administration	.1.Recruitment: All India Services, Central Services, State Services	3	Lokprashasan B.B.Patil	EXPLANETION CHALK AND TALK
	2.2. Public Service Commission: Union Public Service Commission and Maharashtra Public Service Commission	4	Lokprashasan B.B.Patil	EXPLANETION
	raining: All- India Services, Central Services, State Services (Maharashtra)	3	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS:SYBA(MARATHI) SEMESTER:IV MONTH: JANUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

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The learners will be able to : TO LEARN ABOUT FINANCIALADM

PAPER III, UNIT III, TITLE	N	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ancial Administration	. Budgetary Process	4	Lokprashasan B.B.Patil	DISCUSSION CHALK & TALK
	.Parliamentary Committees: Public Accounts Committee, Estimates Committee, Committee on Public Undertakings	4	Lokprashasan B.B.Patil	EXPLANETION
	.Comptroller and Auditor General	4	Lokprashasan B.B.Patil	EXPLANETION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___12_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASST PROF.VIJAYA NARAYANRAO SHIRSAT DEPARTMENT:POLITICAL-SC CLASS: SYBA(MARATHI) SEMESTER: IV MONTH: FEBRUARY & MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : TO LEARN ABOUT CONTEMPORARY ISSUES IN INDIAN ADMINISTRATION.

PAPER III , UNIT IV, TITLE	SUBTOPICS INDIAN ADMINISTRATION	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ontemporary Issues in Indian Administration	. Integrity in Administration: Lokpal, Lokyukta, CVC	4	Lokprashasan B.B.Patil	CHALK ABD TALK
	4.2. Citizen and Administration	3	Lokprashasan B.B.Patil	LECTURE METHOD
	3.Citizens' Charter	4	Lokprashasan B.B.Patil	LECTURE METHOD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___11_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr Amol Samant DEPARTMENT: Biotechnology CLASS: F.Y.B.Sc. SEMESTER: I

MONTH: Jun-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. Experiments which proved DNA as a transforming element and RNA as a genetic material.

2. DNA repair mechanisms system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT106 **MOLECULAR BIOLOGY I** **UNIT I** **Chromosome structure, composition and packing**	The Composition and structure of DNA and RNA: Nucleotide and Nucleoside, Structure of nucleotides. Structure of DNA. DNA double helix – Watson and Crick's Model. Structure of RNA. Types of RNA. Organization of DNA in chromosome: Viral and Prokaryotic Chromosomes. Eukaryotic Chromosomes. Histone and Non-histone proteins. Nucleosome Structure. Packaging of DNA into chromosomes. Euchromatin and Heterochromatin. Centromeres and Telomeres Chromosome Banding Techniques. Karyotype and Idiogram	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Demo video

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USBT106 **MOLECULAR BIOLOGY I** **UNIT III** **Mutation and repair**	Definition and concept of Mutations: Classification of mutations Types of Point Mutations, Types of Spontaneous and induced mutations Mutagenesis and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens) DNA repair: Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair.	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Animation video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______30___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: __CHEMISTRY ________________________ CLASS: ______FYBSC_(PCM)__________ SEMESTER: _____1_________ MONTH: _OCT 2022_______________ ACADEMIC YEAR: ______2022-2023_____________

LEARNING OBJECTIVE/S:

- The learners will be able to : To understand basics of ORGANIC CHEMISTRY
- To study hybridization sp, sp2, sp3,
- Shapes of ORGANIC molecules
- Differentate between Homolytic and Heterolytic.
- To study types of Reactions

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
• Paper 1 • Unit 3	Alkanes,Alkenes,Alkanes,Alcohol,Aldehydes and ketones,Anhydride,Nitro Compounds	3	Clayden	Google Classroom
	Hybridization of ORGANIC compounds	3	Clayden	Google Classroom

• Basics of ORGANIC CHEMISTRY	Overlaping of Atomic Orbital,Bonding-Sigma and Pi,Shapes of Molecules,Properties-Ethane,Ethene,Ethyne.	2	Clayden	Google Classroom
	Electronic Effect Inductive,Electronic,Resonance,Mesomeric,Hyperconjugation,Dipole moment,Relative Strengths	3	Clayden,Text book	Google Classroom

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	Homolytic and Heterolytic fission,Nucleophilicity and Basicity	2	Clayden	Google Classroom
	Carbonation,carbanion,free radical.Types of Reactions Addition,Elimination,Substitution	2	Clayden,Text book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___RUTUJA HEMANT SAWANT ____ DEPARTMENT: _CHEMISTRY ____________________________ CLASS: FYBSC (PCM)___________________ SEMESTER: ____1___________ MONTH: OCT 2022_______________ ACADEMIC YEAR: _2022-2023___________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To understand about Chemical Kinetics in detail

- To differentiate between Order and Molecularity
- To find the Rate of Reactions by different methods
- To learn about different methods
- To study of solids

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• Paper 2 • Unit 1	Rate of Reactions- 1st and 2nd reactions, Order and Molecularity, integrated and grapical methods.	4	Text Books, Principal of	Google Classroom

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• CHMEICAL KINETICS AND LIQUID STATE			Chemical Kinetics	
	Ostwald’s isolation, Half time And Drop number method, Surface tension, Viscosity	4	Text Books, Principal of Chemical Kinetics	Google Classroom
	Ostwald’s viscometer, Refrective index, Molar Refraction.	3	Text Books, Principal of Chemical Kinetics	Google Classroom

	Polarizability, Abbe's Refractometer, Numericals	2	Text Books, Principal of Chemical Kinetics	Google Classroom
	Liquid crystals, classification and structure, Application of liquid crystal	2	Text Books, Principal of Chemical Kinetics	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ______15____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: __CHEMISTRY _________________________ CLASS: ______FYBSC_(CBZ-A)____________ SEMESTER: _____1__________ MONTH: _OCT 2022______________ ACADEMIC YEAR: ______2022-2023______________

LEARNING OBJECTIVE/S:

- The learners will be able to : _To understand basics of ORGANIC CHEMISTRY
- To study hybridization sp, sp2, sp3,
- Shapes of ORGANIC molecules
- Differentate between Homolytic and Heterolytic.
- To study types of Reactions

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• Paper 1 • Unit 3 • Basics of ORGANI C CHEMIS TRY	Alkanes,Alkenes,Alkanes,Alcohol,Aldehydes and ketones,Anhydride,Nitro Compounds Hybridization of ORGANIC compounds Overlaping of Atomic Orbital,Bonding-Sigma and Pi,Shapes of Molecules,Properties-Ethane,Ethene,Ethyne. EffectInductive,Electronic,Resonance,Mesomeric,Hyperconjugation,Dipole moment,Relative Strengths Homolytic and Heterolytic fission,Nucleophilicity and Basicity Carbonation,carbanion,free radical.Types of Reactions Addition,Elimination,Substitution	3 3 2 3 2 2	Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom
			Text Book,Clayden	Google Classroom

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			Text Book,Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

TEACHING PLAN (UNIT P

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: CHEMISTRY ___________________________ CLASS: _____SYBSC (PC-CZ)______________ SEMESTER: ________3_______ MONTH: __JULY 2022______________ ACADEMIC YEAR: _2022-2023____________________

LEARNING OBJECTIVE/S:

- The learners will be able to : __TO learn the chemistry of HALOGENTED HYDROCARBON
- To study about nucleophilic substitution
- To study about reactions with ALCOHOL,PHENOL,EPOXIDE.
- TO understand different types of reagents and it's uses in reaction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER 1 • UNIT 3	Alkyl Halides-SN1,SN2,SNi, reactions, Factors affecting reactions, Aryl Halides-substitution reaction, SnAr, addition-elimination, benzyne mechanism	7	Text Book, Clayden.	Google Classroom

• REACTIONS AND REACTIVITY OF HALOGENATED	Preparation using alkyl and Aryl halide, cyanide, and epoxides. Alcohols-Reaction of Aldehydes and Ketones, Acidity and reaction of alcohols	5	Text Book, Clayden	Google Classroom

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HYDROCARBON	Phenols-Preparation, Physical Properties, strength of acidic nature of alcohol and phenol, Resonance stabilization of phenoixde ion, Reactions of phenol.	3	Text Book, Clayden	Google Classroom
	Epoxides-Reactivity, Ring opening, reaction with halogen halide, alcohol and Hydrogen Cyanide	3	Text Book, Clayden	Google Classroom
	In neutral or basic conditions- Ammonia, Amines, grignard reagent, alkoxide	2	Text Book, Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __RUTUJA HEMANT SAWANT ____ DEPARTMENT: ________CHEMISTRY ____________________ CLASS: _____MSC PART 1______________ SEMESTER: ______1_________ MONTH: ____SEP 2022_____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about various THERMAL METHODS.
- To differentiate between DSC and DTA.
- To learn about the instrumentation and working of different instruments
- To understand need for automation in modern life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 4 • Unit- 4 • THERMAL METHODS	Recapitulation of thermal methods, thermoanalytical methods, types of curves, TGA VS DTA, TGA Instrumentation, working factors affecting TGA, Applications.	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	DSC- Instrumentation, working, block diag, Factors affecting curve, types of DSC	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom

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	DTA- Working, Principal, Instrumentation, Application, comparison to DSC	3	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	Application's of DSC, Automation of Chemical Analysis- Need and Objectives of Automation, flow injections and discrete automated system	5	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom
	Multiplayer films, Gas monitoring equipment, Automatic titrators and benifits	4	Vogal, Skoog, Instrumentation in Analytical Chemistry	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __RUTUJA HEMANT SAWANT ____ DEPARTMENT: ____CHEMISTRY ________________________ CLASS: ____FYBSC (PCM)_______________ SEMESTER: ___2____________ MONTH: _JAN 2023_______________ ACADEMIC YEAR: __2022-2023__________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about Carbon Bonding.

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- To study about reaction and mechanism of various compounds

- To study about hydrocarbon it’s , properties and reactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 1 • UNIT- 3 • ALIPHATIC HYDROCARBON	C-C Sigma bond, Chemistry of alkanes- formation, Wurtz reaction, free radical halogenation- Wurtz fitting reactions. C-C Pi bond, formation of alkenes and alkynes, E1 and E2 reaction	4	Clayden	Google Classroom
	E1cb, Satzeff, Hoffman eliminations, Markownikoff and Anti- Markownikoff addition, Oxy and Demercuration, Hydroboration oxidation, Ozonolysis	5	Clayden	Google Classroom
	Syn-Anti Hydroxylation, 1,2 and 1,4 addition, Diels’s Alder reaction, Allylic and Benzylic Bromination	3	Clayden	Google Classroom
	Propen, 1-butene, toluene, ethyl-benzene Reactions of Alkyenes- Acidic, Electrophilic, Nucleophilic Additions	3	Clayden	Google Classroom
	Hydration to form carbon compounds, Alkylation of Terminal Alkyenes	2	Clayden	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

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LEARNING OBJECTIVE/S:

- The learners will be able to : _To understand about ionic equilibria
- To understand about pH and buffer and their uses in reaction
- To learn about MOLECULAR SPECTROSCOPY
- To study about solids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 2 • UNIT- 1 • Ionic Equilibria,	Types of electrolytes, Degree of Ionization and factors affecting It, ionization constant, ionization product of water, ionization of weak acids and base, pH scale, common ion effect.	5	J. Butler, Text Book	Google Classroom
	Buffers- Types, Henderson equations for acid and base, Buffer action, Buffer capacity, Numericals	3	J. Butler, Text Book	Google Classroom

• Molecular Spectroscopy, • Solid State Chemistry.	Molecular Spectroscopy- EMR and spectrum, planks equation, absorption, emission, scattering, fluorescence, electronic. Vibrational and Rotational transition and Numericals	4	C.N Banwell, Text Book	Google Classroom
	Solid State Chemistry- Types of solids, Crystal lattice, lattice points, unit cell, space lattice, lattice plan.	2	A.R WEST, Text Book	Google Classroom

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	Crystallography- Law of Constancy, interfacial Angel, Law of symmetry, Law of Rational indices	3	Text Book, A.R WEST	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _RUTUJA HEMANT SAWANT ____ DEPARTMENT: ________CHEMISTRY ____________________ CLASS: _____FYBSC (CBZ-A)______________ SEMESTER: ______2_________ MONTH: __JAN 2023_______________ ACADEMIC YEAR: ___2022-2023_________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about Carbon Bonding.

- To study about reaction and mechanism of various compounds

- To study about hydrocarbon it's , properties and reactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER- 1 • UNIT- 3 • Aliphatic Hydrocarbon	C-C Sigma bond, Chemistry of alkanes- formation, Wurtz reaction, free radical halogenation- Wurtz fitting reactions.	4	John C Kotz, Text Book	Google Classroom
	C-C Pi bond, formation of alkenes and alkynes, E1 and E2 reaction	5	John C Kotz, Text Book	Google Classroom
	E1cb, Satzeff, Hoffman eliminations, Markownikoff and Anti- Markownikoff addition, Oxy and Demercuration,	3	Clayden Text Book	Google Classroom

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	Hydroboration oxidation, Ozonolysis			
	Syn-Anti Hydroxylation, 1,2 and 1,4 addition, Diels's Alder reaction, Allylic and Benzylic Bromination	2	Clayden Text Book	Google Classroom

	Propen, 1-butene, toluene, ethyl-benzene Reactions of Alkyenes- Acidic, Electrophilic, Nucleophilic Additions Hydration to form carbon compounds, Alkylation of Terminal Alkyenes	1	Clayden Text Book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____RUTUJA HEMANT SAWANT ____ DEPARTMENT: _________CHEMISTRY ___________________ CLASS: _______SYBSC (PC-CZ)____________ SEMESTER: ______4_________ MONTH: NOV 2022______________ ACADEMIC YEAR: ___2022-2023_________________

LEARNING OBJECTIVE/S:

- The learners will be able to : To study about Carboxylic Acid.
- To study about Carboxylic Acid Derivatives.
- To study about Sulphonic Acid and it’s Derivatives
- To learn about Preparation and Uses of Derivatives .

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER-1 • UNIT- 3 • Carboxylic Acid and their Derivatives • Sulphonic Acids.	Nomenclature, Structure, physical properties, Acidity of carboxylic Acid, effects of substitute on acid strength of aliphatic aromatic carboxylic Acid, prep of carboxylic acid	3	Clayden Text Book	Google Classroom
	Carbonation of Grignard, Hydrolysis of nitriles, Acidity, Salt formation, decarboxylation, HVZ. Conversion- To acid chloride, ester, amides, acid anhydride	4	Clayden Text Book	Google Classroom
	Mechanism of Nucleophile Acyl and acid catalysed substitution, Interconversion of acid derivatives by Nucleophile substitution, Claisen and Dieckmann Condensation	5	Clayden Text Book	Google Classroom
	Sulphonic Acid- Preparation by sulphonation of benzene toluene and naphthalene,Acidity of arenes Sulphonic Acids, comparative acidity of carboxylic and Sulphonic acid	3	Clayden Text Book	Google Classroom
	Salt formation, desulphonation, reactions with alcohol and PCL5, IPSO substitution	2	Clayden Text Book	Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____RUTUJA__HEMANT SAWANT____ DEPARTMENT: CHEMISTRY ______________________________ CLASS: ___MSC PART 1_________________ SEMESTER: ______2_________ MONTH: JAN 2022_________________ ACADEMIC YEAR: ___2022-2023__________________

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LEARNING OBJECTIVE/S:

- The learners will be able to : To learn about various ELECTRO-ANALYTICAL METHODS
- To study about ELECTROGRAVIMETERY as a concept.
- To study about COULOMETRY it's principals, types, Applications.
- To explore new techniques in Analytical Chemistry on whole.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• PAPER – 4 • UNIT- 4 • ELECTO ANALYTICAL METHODS	Ion Selective Potentiometery and it's types of electrodes, Solid-State, Precipitate, Liquid-Liquid, Enzyme and Gas sensing electrodes	4	Vogal, Skoog, Principals in Analytical Chemistry	Google Classroom
	Ion Selective Field Effect Transistors, Biocatalytic Membrane Electrode, Enzyme Based Bio-Sensor, Sums. Polarography- Intro, Principal, Nature of Wave	3	Vogal, Skoog, Principles in Analytical Chemistry	Google Classroom
	Ilkovic eq, Derivation with Cotteral eq,Effect of complex formation on polarographic wave, Sums Electrogravimetery-Introduction, Principal	3	Vogal, Skoog, Principles in Analytical Chemistry	Google Classroom

	Instrumentation, constant current and constant potential electrolysis, factors affecting nature of deposit, application's. Coulometery- Intro, Principal, Types- Controlled Potienal, Controlled Current.	4	Vogal, Skoog, Principals in Analytical Chemistry	Google Classroom
	Applications of Coulometery, Advantages and Numericals entire chapter	3	Vogal, Skoog, Principal in Analytical Chemistry	Google Classroom

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey________________DEPARTMENT: Chemistry__________________ CLASS: _F.Y.B.Sc._________________

SEMESTER: __I____________ MONTH: _ _____________ACADEMIC YEAR: ___2022-23_________________

LEARNING OBJECTIVE/S:
The learners will be able to :

To gain knowledge about the Nomenclature mono and bi-functional aliphatic compounds .

To understand Bonding and Structure of organic compounds .

To study the Fundamentals of organic reaction mechanism:
To learn Electronic Effects and bond fission.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-I (General Chemistry) Unit III 3. Basics of Organic Chemistry	**3. Basics of Organic Chemistry** **3.1 Classification and Nomenclature of Organic Compounds:** Review of basic rules of IUPAC nomenclature. Nomenclature of mono and bi-functional aliphatic compounds on the basis of priority order of the following classes of compounds: alkanes, alkenes, alkynes, haloalkanes, alcohols, ethers, aldehydes, ketones, carboxylic acids, carboxylic acid derivatives (acid halides, esters, anhydrides, amides), nitrocompounds, nitriles and amines; including their cyclic analogues. **3.2 Bonding and Structure of organic compounds:** Hybridization: sp^3, sp^2, sp hybridization of carbon and nitrogen; sp^3 and sp^2 hybridizations of oxygen in Organic compounds (alcohol, ether, aldehyde, ketone, carboxylic acid, ester, cyanide, amine and amide)	**(5L)** **(4L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	Overlap of atomic orbitals: Overlaps of atomic orbitals to form sigma and pi bonds, shapes of organic molecules. Shapes of molecules; Influence of hybridization on bond properties (as applicable toethane, ethene, ethyne) **3.3 Fundamentals of organic reaction mechanism:** **Electronic Effects:** Inductive, electromeric, resonance and mesomeric effects,hyperconjugation and their applications; Dipole moment; Organic acids and bases; their relative strengths. **Bond fission:** Homolytic and Heterolytic fission with suitable examples. Electrophiles and Nucleophiles; Nucleophilicity and basicity; **Types (primary, secondary, tertiary, allyl, benzyl), shape and their relative stability of reactive intermediates:** Carbocations, Carbanions and Free radicals. **Introduction to types of organic reactions:** Addition, Elimination and Substitution reaction. (With one example of each)	**(6L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey _DEPARTMENT: Chemistry_ CLASS:

_F.Y.B.Sc. SEMESTER: __I_____________ MONTH_

______________ACADEMIC YEAR: ___2022-23__________________

LEARNING OBJECTIVE/S: The learners will be able to : Understand basics of chemical kinetics and predict reaction mechanism.Calculate rate constant of zero, first and second order reaction. The basics of solutions, Colligative properties, and their applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II (General Chemistry) Unit-I Title- Physical Chemistry	**1.1 Chemical Kinetics:** Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, integrated rate equation of first and second order reactions (with equal initial concentration of reactants) (Numericals expected) Determination of order of reaction by (a) Integration method (b) Graphical method (c)Ostwald's isolation method (d) Half time method (Numericals expected) **1.2 Liquid State:** Surface tension: Introduction, methods of determination of surface tension by drop number method (Numericals expected) Viscosity: Introduction, coefficient of viscosity, relative viscosity, specific viscosity,reduced viscosity, determination of viscosity by Ostwald viscometer (Numericals expected) Refractive index: Introduction, molar refraction and polarizability, determination of refractive index by Abbe's refractometer (Numericals expected) Liquid crystals: Introduction, classification and structure of thermotropic phases (Nematic,smectic and cholesteric phases), applications of liquid crystals	**(8L)** **(7L)**	Text Book, Reference Book, You tube video	Chalk and talk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Arti Dubey_____________ DEPARTMENT: Chemistry___________________ CLASS: _F.Y.B.Sc.__________________
SEMESTER: __II_____________ MONTH: ____________ ACADEMIC YEAR: ___2022-23________________

LEARNING OBJECTIVE/S: The learners will be able to :

Formation of alkanes, Wurtz Reaction,

Wurtz-Fittig Reactions,

Mechanism of E1, E2,E1cb reactions.

Saytzeff and Hofmann eliminations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper-I (General Chemistry) Unit III 3. Basics of Organic Chemistry	**3. Chemistry of Aliphatic Hydrocarbons** **3.1 Carbon-Carbon sigma bonds:** **Chemistry of alkanes:** Formation of alkanes, Wurtz Reaction, Wurtz-Fittig Reactions,Free radical substitutions: Halogenation - relative reactivity and selectivity. **3.2 Carbon-Carbon pi bonds:** **Formation of alkenes and alkynes by elimination reactions:** Mechanism of E1, E2,E1cb reactions. Saytzeff and Hofmann eliminations. **Reactions of alkenes:** Electrophilic additions their mechanisms (Markownikoff/ AntiMarkownikoff addition),Mechanism of oxymercuration-demercuration, hydroboration-oxidation, ozonolysis,reduction(catalytic and chemical), syn and anti hydroxylation (oxidation). 1, 2-and 1, 4-addition reactions in	**(3L)** **(12L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	conjugated dienes and, Diels-Alder reaction; Allylic and benzylic bromination using N-bromosuccinimide and mechanism, e.g. propene, 1-butene, toluene,ethylbenzene. **Reactions of alkynes:** Acidity, Electrophilic and Nucleophilic additions. Hydration toform carbonyl compounds, Alkylation of terminal alkynes.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Dr.Arti Dubey__________________DEPARTMENT: __Chemistry________________CLASS: __F.Y.B.Sc_________________

SEMESTER: __II_____________ MONTH: ___ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:

The learners will be able to : _

- Understand The fundamentals of ionic equilibrium and its applications
- Learn about the basics of Molecular Spectroscopy **.**
- Know about the Solid State Chemistry .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Paper II Unit I TITLE Physical Chemistry	**1.1 Ionic Equilibria:** Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water, ionization of weak acids and bases, pH scale, common ion effect, dissociation constants of mono-, di and triprotic acid (exact treatment for monoprotic acid) Buffers: Introduction, types of buffers, derivation of Henderson equation for acidic and basic buffers, buffer action, buffer capacity (Numericals expected) **1.2 Molecular Spectroscopy:** Electromagnetic radiation, electromagnetic spectrum, Planck's equation, interaction of electromagnetic radiation with matter: Absorption, emission, scattering, flourescence, electronic, vibrational and rotational transitions, Beer-Lambert's law (Numericals expected) **1.3 Solid State Chemistry** Types of solids, crystal lattice, lattice points, unit cell, space lattice and lattice plane, laws of crystallography: Law of	**(7L)** **(4L)** **(4L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	constancy of interfacial angle, law of symmetry and law of rational indices (Numericals expected)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15 L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___III____________ MONTH: _______ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to :
Know about Chemical Bonding, Non-Directional Bonding, Directional Bonding- Orbital approach, Molecular Orbital Theory **.**

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

Course Title: (General Chemistry) Paper-I Unit-II Inorganic Chemistry	**Unit-II** **Chemical Bonding** **2.1 Non-Directional Bonding** 2.1.1 Ionic Bond: Conditions for the Formation of Ionic Bond. 2.1.2 Types of Ionic Crystals 2.1.3 Radius Ratio Rules 2.1.4 Lattice Energy, Borne-Lande Equation 2.1.5 Kapustinski Equation 2.1.6 Born-Haber Cycle and its Application **2.2. Directional Bonding: Orbital Approach.** 2.2.1 Covalent Bonding The Valence Bond Theory-Introduction and basic tenets. 2.2.2 Interaction between two hydrogen atoms and the Potential energy diagram of the resultant system. 2.2.3 Corrections applied to the system of two hydrogen atoms Formation of H_2	**(4L)** **(6L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	2.2.4 Homonuclear diatomic molecules from He_2 to Ne_2 2.2.5 Resonance and the concept of Formal Charge; Rules for Resonance or Canonical structures. 2.2.6 Bonding in Polyatomic Species: The role of Hybridization. And types of hybrid orbitals-*sp*, sp^2, sp^3, sp^3d, sp^2d^2 *and* sp^2d sp^3d^2. 2.2.7 Equivalent and Non-Equivalent hybrid orbitals 2.2.8 Contribution of a given atomic orbital to the hybrid orbitals (with reference to sp^3 hybridisation as in CH_4, NH_3 and H_2O and series like NH_3, PH_3, AsH_3, BiH_3) 2.3 **Molecular Orbital Theory** 2.3.1. Comparing Atomic Orbitals and Molecular Orbitals. 2.3.2. Linear combination of atomic orbitals. to give molecular orbitals LCAO-MO approach for diatomic homonuclear molecules). 2.3.4. Wave mechanical treatment for molecular orbitals (H_2^+ and H_2) 2.3.4 Molecular orbital Theory and Bond Order and magnetic property: with reference to O_2,O_2^+ O_2^-,O_2^{2-} (Problems and numerical problems expected wherever possible)	**(5L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Arti Dubey______________________ DEPARTMENT: _Chemistry_____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___III_____________ MONTH: ______ ACADEMIC YEAR: __2022-23____________________

LEARNING OBJECTIVE/S:
The learners will be able to :

- To gain knowledge about the Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds.
- To know about General mechanism of nucleophilic addition reaction.
- To understand the Reactions of aldehydes and ketones
- To learn common reaction mechanisms of Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro reaction.
- To gain knowledge about the Keto-enol tautomerism.
- To study the Active methylene compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Course Title: (General Chemistry) Paper-II **Unit III: Organic Chemistry**	**Unit III: Organic Chemistry** **Carbonyl Compounds:** 3.1 Nomenclature of aliphatic, alicyclic and aromatic carbonyl compounds. Structure, reactivity of aldehydes and ketones and methods of preparation; Oxidation of primary and secondary alcohols using PCC, hydration of alkynes, action of Grignard reagent on esters, Rosenmund reduction, Gattermann – Koch formylation and Friedel Craft acylation of arenes 3.2 General mechanism of nucleophilic addition, and acid catalyzed nucleophilic addition reactions. 3.3 Reactions of aldehydes and ketones with $NaHSO_3$, HCN, RMgX, alcohol, amine, phenyl hydrazine, 2,4-Dinitrophenyl hydrazine, $LiAlH_4$ and $NaBH_4$. 3.4 Mechanisms of following reactions: Benzoin condensation, Knoevenagel condensation, Claisen-Schmidt and Cannizzaro	**[15L]**	Text Book, Reference Book, You tube video	Chalk and talk method

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	reaction. 3.5 Keto-enol tautomerism: Mechanism of acid and base catalysed enolization 3.6 Active methylene compounds: Acetylacetone, ethyl acetoacetate diethyl malonate, stabilised enols. Reactions of Acetylacetone and ethyl acetoacetate (alkylation, conversion to ketone, mono- and dicarboxylic acid)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15 L______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Arti Dubey____________________ DEPARTMENT: _Chemistry___________CLASS: ___S.Y.B.Sc._______________

SEMESTER: ___III____________ MONTH: _________________ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to : ___

1. Select a method of analysis
2. Decide how to identify a sample and prepare it for analysis
3. Select a procedure for analysis
4. Identify sources of possible errors in the results obtained.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

PAPER –III Unit I Title Analytical Chemistry	Unit **I- Interduction to Analytical Chemistry and Statistical Treatment of analytical data-I** *(Problems including numericals expected wherever necessary)* **1.1. Role of Analytical Chemistry (9 L)** 1.1.1. Language of analytical chemistry: important terms and their significance in Analytical Chemistry. 1.1.2. Purpose of Chemical Analysis; Analysis Based (i) On the nature of information required: (Proximate, Partial, Trace, Complete Analysis) and (ii) On the size of the sample used (Macro, semi micro and micro analysis) 1.1.3. Classical and Non-Classical Methods of Analysis; their types and importance. **1.2. Significance of Sampling in Analytical Chemistry** 1.2.1. Terms involved in Sampling 1.2.2. Types of Sampling 1.2.3. Sampling techniques	**(9 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

SIGNATURE OF THE STAFF SIGNATURE OF THE H.O.D.

	1.3. Results of Analysis. 1.3.1. Errors in Analysis and their types 1.3.2. Precision and Accuracy in Analysis 1.3.3. Corrections for Determinate Errors *(Problems including Numericals expected wherever required)*	**(6L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __(15 L)________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey______________________ DEPARTMENT: _Chemistry_____________CLASS: ___S.Y.B.Sc._________________

SEMESTER: ___IV_____________ MONTH: _______________ ACADEMIC YEAR: __2022-23____________________

LEARNING OBJECTIVE/S:
The learners will be able to :

To understand the different aspects and importance variable oxidation states, Origin of colour and Magnetic properties for transition metals and their compounds __

To study the Selected topics on Chemistry of Titanium and vanadium.

To gain knowledge about the Coordination Chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Course Title: (General Chemistry) Paper-I Unit-II Inorganic Chemistry	**Unit-II** **2.1 Comparative Chemistry of the transition metals (9 L)** **2.1.1** Position in the periodic table; Natural occurrence principal ores and minerals; **2.1.2** Significance of special stability of d_0, d_5 and d_{10} leading to variable oxidation states; Unusual oxidation states and their stabilities in aqueous solutions (with special reference to vanadium, and chromium.) **2.1.3** Origin of colour for transition metals and their compounds: such as reflectivity, surface coatings, particle size, packing density for metals and nature of d-orbitals, number of electrons in the d orbitals, geometry, and ability for charge transfer). **2.1.4** Magnetic properties of transition metal compounds: Origin of magnetism-spin and orbital motion of electrons; equation for spin only and spin-orbital magnetism in terms of Bohr magnetons (No derivation of relevant equations expected); Reasons for quenching	**(9 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	of orbital moments. **2.1.5** Chemistry of Titanium and vanadium: properties of Oxides and chlorides; use in titrimetric analysis **2.1.6** Qualitative tests for transition metal ions: General considerations in devising tests (with reference to Chromium, Manganese, iron, Cobalt Nickel and Copper) **2.2 Coordination Chemistry :** **2.2.1 Introduction to Chemistry of Coordination Compounds** i. Historical perspectives: Early ideas on coordination compounds ii. Basic terms and nomenclature. iii. Types of ligands iv. Isomerism :General Types with special reference to stereoisomerism of coordination compounds (C.N=6) v. Evidence for the formation of coordination compounds, **2.2.2. Theories of coordination compounds** i. Werner's Theory of coordination compounds, ii. Effective atomic number rule. iii. Eighteen electron Rule **2.2.3. Nature of the Metal-Ligand Bond:** i.) Valence Bond Theory; Hybridisation of the central metal orbitals-sp^3, sd^3/d^3s sp^3d^2/d^2sp^3, sp^2d, ii.) Inner and outer orbital complexes of .(suitable examples of Mn(II) Fe(II),Fe(III),Co(II)/Co(III),Ni(II), Cu(II) Zn(II) complexes with ligands like aqua, ammonia CN^- and halides may be used) iii.) Limitations of V.B.T **2.2.4.** Application of coordination compounds.	**(6 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15L_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___IV____________ MONTH: ______________ _ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:

The learners will be able to : To gain knowledge about the Nomenclature, Preparation and Reactions of aliphatic, and aromatic compounds. To learn common reaction and mechanisms of Salt Formation, N-acylation, N-alkylation, Hofmann's exhaustive methylation (HEM),Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation. To study about Heterocyclic Compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER –II Unit III Title: Organic Chemistry	**Unit III: Organic Chemistry** **Nitrogen containing compounds and heterocyclic compounds: 3.1 Amines:** Nomenclature, effect of substituent on basicity of aliphatic and aromatic amines; 3.1.1. Preparation: Reduction ofaromaticnitro compounds using catalytic hydrogenation,chemical reduction using Fe-HCI, Sn-HCl, Zn-acetic acid, reduction of nitriles, ammonolysis of halides, reductive amination , Hofmann bromamide reaction. 3.1.2. Reactions- Salt Formation, N-acylation, N-alkylation, Hofmann's exhaustive methylation (HEM),Hofmann-elimination reaction, reaction with nitrous acid, carbylamine reaction, Electrophilic substitution in aromatic amines: bromination, nitration and sulphonation. **3.2 Diazonium Salts**: Preparation and their reactions/synthetic application - Sandmeyer	**(7 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

	reaction, Gattermann reaction, Gomberg reaction, Replacement of diazo group by -H,-OH. Azo coupling with phenols, naphthols and aromatic amines, reduction of diazonium salt to aryl hydrazine and hydroazobenzene **3.3 Heterocyclic Compounds:** 3.3.1. Classification, nomenclature, electronic structure, aromaticity in 5-numbered and 6-membered rings containing one heteroatom; 3.3.2. Synthesis of Furan, Pyrrole (Paal-Knorr synthesis, Knorr pyrrole synthesis, and Hantzsch synthesis), Thiophene, Pyridine (Hantzsch synthesis), 3.3.3. Reactivity of furan, pyrrole and thiophene towards electrophilic substitution reactions on the basis of stability of intermediate and of pyridine on the basis of electron distribution. Reactivity of pyridine towards nucleophilic substitution on the basis of electron distribution. 3.3.4. Reactions of furan, pyrrole and thiophene: halogenation, nitration, sulphonation, Vilsmeier-Haack reaction, Friedel-Crafts reaction. Furan: Diels-Alder reaction, Ring opening. Pyrrole: Acidity and basicity of pyrrole. Comparison of basicity of pyrrole and pyrrolidine. 3.3.5. Pyridine: Basicity. Comparison of basicity of pyridine, pyrrole and piperidine. Sulphonation of pyridine (with and without catalyst), reduction and action of sodamide (Chichibabin reaction).	**(8 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.Arti Dubey_____________________ DEPARTMENT: _Chemistry____________CLASS: ___S.Y.B.Sc.________________

SEMESTER: ___IV____________ MONTH: _________________ ACADEMIC YEAR: __2022-23___________________

LEARNING OBJECTIVE/S:
The learners will be able to understand :

 The importance of separation in sample treatment

 Various methods of separations

 How to select a method of separation of an analyte from the matrix

 How a solute gets distributed between two immiscible phases

 Principle of solvent extraction and various terms involved therein

 Effect of various parameters on solvent extraction of a solute

 Classification of Chromatographic methods

 Paper and thin layer chromatography and using them in practice.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

PAPER –III Unit I Title: analytical Chemistry	**1. Separation Techniques in Analytical Chemistry** **1.1.** An Introduction to Analytical Separations and its importance in analysis. **1.2.** Estimation of an analyte without effecting separation. **1.3.** Types of separation methods **1.3.1.** Based on Solubilities (Precipitation, Filtration Crystallisation) **1.3.2.** Based on Gravity- Centrifugation **1.3.3.** Based on volatility-Distillation ; **1.3.4.** Based on Electrical effects-Electrophoresis **1.3.5.** Based on retention capacity of a Stationary Phase - Chromatography; **1.3.6.** Based on distribution in two immiscible phases-Solvent	**(02 L)**	Text Book, Reference Book, You tube video	Chalk and talk method

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	Extraction; **1.3.7.** Based on capacity to exchange with a resin-Ion Exchange; **1.4. Electrophoresis:** Principles, Basic Instrumentation, Working and Application in separation of biomolecules like enzymes and DNA. **1.5. Solvent extraction** 1.5.1. Introduction, Nernst distribution Law, Distribution Ratio, Partition Coefficient. 1.5.2. Conditions of extraction: Equilibration time, Solvent volumes, temperature, pH. 1.5.3. Single step and multi step extraction, Percentage extraction for single step and multistep extraction. Separation factor. 1.5.4. Batch and continuous extraction **1.6. Chromatography** 1.6.1. Introduction to Chromatography 1.6.2. Classification of chromatographic methods based on stationary and mobile phase 1.6.3. Paper Chromatography: Principle, techniques and applications of Paper Chromatography in separation of cations. 1.6.4. Thin layer Chromatography Principle, technique and Applications in determining the purity of a given solute; Following progress of a given reaction .	**(02 L)** **(06 L)** **(05 L)**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

___15L_______

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NAME OF THE STAFF: ___Dr.Arti Dubey_______________ DEPARTMENT: Chemistry________________ CLASS: _M.Sc.(Part-I)_________________

SEMESTER: ___I_________ MONTH: _ _________________ ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Understand Materials Chemistry and Nanomaterials

Study about Solid State Chemistry, Structures of Compounds ,Methods of preparation for inorganic solids Preparative methods of Nanomaterials

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Paper-II Inorganic chemistry Unit-III Title-Materials Chemistry and Nanomaterials	3.1 **Solid State Chemistry** 3.1.1. Electronic structure of solids and band theory, Fermi level, K Space and Brillouin Zones. 3.1.2. Structures of Compounds of the type: AB [nickel arsenide (NiAs)], AB2 [fluorite (CaF_2) and anti-fluorite structures, rutile (TiO_2) structure and layer structure [cadmium chloride and iodide ($CdCl_2$, CdI_2)]. 3.1.3. Methods of preparation for inorganic solids: Ceramic method, precursor method, sol-gel method (applications in Biosensors), microwave synthesis (discussion on principles, examples, merits and demerits are expected) 3.2 **Nanomaterials** 3.2.1. Preparative methods: Chemical methods, Solvothermal, Combustion synthesis, Microwave, Co-precipitation, Langmuir Blodgett(L-B) method, Biological methods: Synthesis using microorganisms. 3.2.2. Applications in the field of semiconductors, solar cells	**[15 L]**	Reference Book, You tube video	Chalk and Talk Method,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___Dr.Arti Dubey______________ DEPARTMENT: __Chemistry_______________ CLASS: _M.Sc.(Part-I)________________

SEMESTER: ___II__________ MONTH: _ ________________ ACADEMIC YEAR: __2022-23__________________

LEARNING OBJECTIVE/S:

The learners will be able to :

Understand heavy metals

Study about heavy metals and their sources, distribution, speciation, biochemical effects and toxicology, control and treatment.

Learn Itai-itai disease for Cadmium toxicity, and Arsenic Poisoning in the Indo-Bangladesh region

Understand biological implication of radioactive materials. Effect of low level radiation on cells- Its applications

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

Paper-II Inorganic chemistry Unit-III Title **Environmental Chemistry**	**3.1. Conception of Heavy Metals:** Critical discussion on heavy metals **3.2. Toxicity of metallic species**: Mercury, lead, cadmium, arsenic, copper and chromium, with respect to their sources, distribution, speciation, biochemical effects and toxicology, control and treatment. **3.3. Case Studies**: (a) Itai-itai disease for Cadmium toxicity, (b) Arsenic Poisoning in the Indo-Bangladesh region. **.3.4.Interaction of radiation in context with the environment:** Sources and biological implication of radioactive materials. Effect of low level radiation on cells- Its applications in diagnosis and treatment, Effect of radiation on cell proliferation and cancer.	**[15 L]**	Reference Book, You tube video	Chalk and Talk Method,

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: _July________________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of QSAR factor and how to relatedto drug design.Also understand the synthesis of some drug.they understand the concept of drug.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER IV Unit II: Drug Design, Develepment And Synthesis	2.1: QSAR Parameter Steric Factor , Talf Equation	5L	1.Medicinal Chemistry,Sriram &Yogeeswari,2nd edition 2.A Introduction to drug design,Pandeya and Dimmock.	White Board and Markar
	2.2: Mordern method of drug design & synthesis	3L		
	2.3: Concept of prodrug & soft drug	3L		
	2.4: Synthesis and application of the drug	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: __July_______________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the Pericyclic reactions and it's different types.Also understand the Selectivity of cycloaddition reaction and sigmatropic reaction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II: Pericyclic Reaction	2.1: Cycloaddition Reaction & Other Cycloaddition Reaction	7L	1.Pericyclic Reaction, Ian Fleming 2.Pericyclic Reaction- A mechanistic Approach, S. M. Mukharji.	White Board and Markar
	2.2: Cycloaddition Reaction	3L		
	2.3: Sigmatropic Rearrangement	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

SIGNATURE OF THE STAFF Gnaphade

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.JAYASHRI GOPAL NAPHADE___DEPARTMENT: __CHEMISTRY_ CLASS: _M.Sc II (ORGANIC CHEMISTRY) SEMESTER: ___IV____________ MONTH: _____January____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the how the protection of group is necessary in organic synthesis also understand the concept of Umpolung.they also understand the concept of retrosynthetic an d how to plan the retrosynthetic apporoach.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERANCES	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT-I Desiging Organic Synthesis-i	1.1:Protectin group in organic Synthesis	3L	1.Protective groups in Organic synthesis,Greene and Wuts 2.Principle of organic synthesis, R.O.C. Norman & Coxon. 3.Organic Synthesis:The Disconnection Approach,Stuart Warren.	White Board & Marker
	1.2: Concept of Umpolung	3L		
	1.3:Introduction to Retrosynthetic analysis & synthetic planning	9L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

SIGNATURE OF THE STAFF Gnaphade

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE ___DEPARTMENT: __CHEMISTRY_CLASS: _M.Sc.II(ORGANIC CHEMISTRY) SEMESTER: _IV_ MONTH: __January_______________ ACADEMIC YEAR: ___2022-2023___________________

LEARNING OBJECTIVE/S:
The learners will be able to: understand the different sources use in research .some information about journals.They understand different resources used during research.like information technology and library.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT-I RESEARCH METHODOLOGY	1.1: Print: Primary, Secondary,Tertiary sources	5L	Research methodology,C.R.Kothari	Projector
	1.2::Journals	5L		
	1.3:Information Technology & Library Resources	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr. JAYASHRI GOPAL NAPHADE __DEPARTMENT: __CHEMISTRY___

CLASS: ___S.Y.B.Sc (PC-CZ)__ SEMESTER: __III___________ MONTH: ___July______________

ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the nomenclature ,structure ,preparation and reactions aof aldehyde and ketones.Also understand mechanism of some name reaction.______

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT –III Carbonyl componnd	3.1: Nomencluture,structure,reactivity & method of Preparation of aldehyde & Ketone	6L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION)	Chalk -Board
	3.2: General mechanism of nuclophilic addition	1L		
	3.3: Reactions of aldehyde and ketones	3L		
	3.4: Mechanism of some name Reactions	2L		
	3.5: Keto-enol tautomerisation 3.6: Active Methylene compound	1L 2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: __CHEMISTRY_______CLASS: __ S.Y.B.Sc (PC-CZ)__ ________ SEMESTER: ______IV_________ MONTH: __December_______________ ACADEMIC YEAR: _____2022-2023________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature and preparation and reaction of Amines and Diazonium salt.They also understand what is heterocyclic compound it's nomenclature,preparation and reaction of furan.Pyrrole,Thiophene and Pyridine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
PAPER-II UNIT –III Nitrogen Containing compound & Heterocyclic compound	3.1:Amines: Nomencluture , preparation and Reactions	4L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION	Chalk - Board
	3.2: Diazonium Salt: Preparation,reactions & synthetic application	3L		
	3.3:Hetrocyclic compound :3.3.1:classification,nomenclature,structure	8L		
	3.3.2:synthesis of furan,pyrrole,Thiophene,pyridine 3.3.3:Reactivityof furan,pyrrole,Thiophene,pyridine			
	3.3.4:Reactions of furan,pyrrole,Thiophene 3.3.5: Pyridine:Basicity,Reaction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____Dr.JAYASHRI GOPAL NAPHADE ---DEPARTMENT: ___CHEMISTRY_________________________

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CLASS: ____T.Y.B.Sc___ SEMESTER: ____V___ MONTH: __July_______________ ACADEMIC YEAR: _____2022-2023_____

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the concept of Dyestuff ,it's type ,nomenclature and application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-III CHEMISTRY OF DYESTUFF	3.1:Introduction to the Dyestuff Induestries	5L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	3.2: Substrates for Dyes : Types of fibres	3L		
	3.3: classification of Dyes based on Applications and Dyeing methods	7L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: _CHEMISTRY_ CLASS: __T.Y.B.Sc_ SEMESTER:

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_________VI______ MONTH: _December________________ ACADEMIC YEAR: ______2022-2023_______________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the classification of dyes and synthesis of some dyes.Also understand the hards of synthetic dyes on health and environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-VII CHEMISTRY OF DYE STUFF	7.1:Classification of dyes based on chemical constitution & synthesis of selected dyes.	12 L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	7.2: Health and Environmental Hazards of synthetic dyes & their remediation process.	3 L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE______________________________DEPARTMENT: ________CHEMISTRY______CLASS: _TYBSC_________________
ACADEMIC YEAR: 2022-23 SEMESTER: _____Vth MONTH: June 2021
LEARNING OBJECTIVE/S:
The learners will be able to :

1. To study redox titration like Construction of the titration curves and calculation of E_{system} in aqueous medium , Theory of redox indicators, Criteria for selection of an indicator in details.

2. To study complexometric titrations in details like construction of titration curve, Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes,Selectivity of EDTA as a titrant,Factors enhancing selectivity with examples,Types of EDTA titrations,Metallochromic indicators, theory, examples and applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 2 **CLASSICAL METHODS OF ANALYSIS (TITRIMETRY) (3 & 6 UNITS)**	***2.1* Redox Titrations (Numerical and word Problems are expected)** *2.1.1* Introduction 2.1.2 Construction of the titration curves and calculation of E_{system}	08L	Saujanya publicationof analytical chemistry,sheth publication,Himalaya publication textbook,	Online video lecture on Google meet

	in aqueous medium in case of: *(1)* One electron system *(2)* Multielectron system 2.1.3 Theory of redox indicators, Criteria for selection of an indicator Use of diphenyl amine and ferroin as redox indicators			

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	2.2 Complexometric Titrations 2.2.1 Introduction, construction of titration curve 2.2.2 Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes, Selectivity of EDTA as a titrant. Factors enhancing selectivity with examples. Advantages and limitations of EDTA as a titrant. 2.2.3 Types of EDTA titrations.	07L	Same as above	Same as above

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	2.2.4 Metallochromic indicators, theory, examples and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _______AJITKUMAR INGLE_______________________DEPARTMENT: ____CHEMISTRY__

__CLASS: __TYBSC__________ SEMESTER: _VTH MONTH: June 2021

__ ACADEMIC YEAR: _2022-23

__ LEARNING OBJECTIVE/S:

The learners will be able to :

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1) To study solvent extraction in detail like Factors affecting extraction, Concept of $[pH]_{1/2}$ and its significance, Craig's counter current extraction.

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*2)*To study HPLC instrumentation, working and applications along with detectors. 3)To study HPTLC instrumentation, working and applications in details.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV UNIT IV **METHODS OF SEPARATION – I (6 UNITS)**	***4.1* Solvent Extraction** *4.1.1* Factors affecting extraction: Chelation, Ion pair formation and Solvation *4.1.2* Graph of percent extraction versus pH. Concept of $[pH]_{1/2}$ and its significance (derivation not expected) 4.1.3 Craig's counter current extraction: Principle, apparatus and applications 4.1.4 Solid phase extraction: Principle, process and applications with	06L	Saujanya publication,sheth publication,Himalaya publication textbook of analytical chemistry,	Online video lecture on Google meet

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	special reference to water and industrial effluent analysis. 4.1.5 Comparison of solid phase extraction and solvent extraction.			

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	4.2 High Performance Liquid chromatography (HPLC) 4.2.1 Introduction and Principle Instrumentation- components with their significance: Solvent Reservoir, Degassing system, Pumps-(reciprocating pumps, screw driven- syringe type pumps, pneumatic pumps, advantages and disadvantages of each pump), Precolumn, Sample injection system, HPLC Columns, Detectors(UV – Visible detector, Refractive index detector) 4.2.2 Qualitative and Quantitative Applications of HPLC	06L	SAME AS ABOVE	SAME AS ABOVE
	4.3 High Performance Thin Layer Chromatography (HPTLC) 4.3.1 Introduction and Principle	03L	SAME AS ABOVE	SAME AS ABOVE

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	Stationary phase, Sample application and mobile phase 4.3.2 Detectors *a)* Scanning densitometer- Components. Types of densitometer- Single beam and Double beam *b)* Fluorometric Detector *4.3.3* Advantages, disadvantages and applications *4.3.4* Comparison of TLC and HPTLC			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand UV – Visible spectroscopy, its basic theory and applications.
Study mass spectrometry, determination of molecular formula and its applications.
Learn natural products like terpenoids, alkaloids in detail.
To gain knowledge of hormones like adrenaline.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Spectroscopy-I And Natural Products**	Electromagnetic spectrum, units of wavelength and frequency, UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome.	02	Introduction to spectroscopy (third edition), Pavia	Blackboard and ppt.
	Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula	03	Spectral identification of organic molecules by Silverstein.	Blackboard and ppt.
	Natural products: terpenoids, their introduction, isoprene rule, special isoprene rule, structural determination of citral,	04	Textbook, Himalaya publication	Blackboard and ppt.

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	Alkaloids introduction and occurrence, structural determination of nicotine,	04	Textbook, Himalaya publication	Blackboard and ppt.
	Hormones: Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.	02	Organic chemistry by Morrision and Boyd, 7_{th} edition	Blackboard and ppt. .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study role of radicals in organic synthesis and their applications in detail.
Learn generation, stability, reactivity and structural and stereochemical properties of free radicals,.
Study characteristic reactions and applications of radicals in synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-II, Synthetic Organic Chemistry-I **UNIT-II, Radicals in organic synthesis**	Stability, reactivity and structural and stereochemical properties of free radicals, Persistent and charged radicals, Electrophilic and nucleophilic radicals. Radical Initiators: azobisisobutyronitrile (AIBN) and dibenzoyl peroxide.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg, 5th Edition,	Blackboard and ppt.
	Characteristic reactions - free radical substitution, addition to multiple bonds. Radical chain reactions, radical halogenation of hydrocarbons (regioselectivity),radical cyclizations, autoxidations	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Radicals in synthesis: Inter and intra molecular C-C bond formation via mercuric hydride, tin hydride, thiol donors. Cleavage of C-X, C-Sn, C-Co, C-S, O-O bonds. Oxidative coupling, C-C bond formation in aromatics: SRNAr reactions.	04	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Hunsdiecker reaction, Pinacol coupling, McMurry coupling, Sandmeyer reaction, Acyloin condensation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study enamines, their generation & application in organic synthesis with mechanistic pathways.
Learn phosphorus, sulfur and nitrogen ylides; preparation and their synthetic applications along with their stereochemical aspects.
Study α-C-H functionalization by nitro, sulfoxide, sulfone and phosphonate groups.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-III, Enamines, Ylides and α-C-H functionalization**	Enamines**:** Generation & application in organic synthesis with mechanistic pathways, Stork enamine reaction. Reactivity, comparison between enamines and enolates. Synthetic reactions of enamines including asymmetric reactions of chiral enamines derived from chiral secondary amines.	04	Name Reactions and Reagents in Organic Synthesis**,** 2nd Edn., Bradford P. Mundy, Michael G. Ellard,	Blackboard and ppt.
	Phosphorus, Sulfur and Nitrogen Ylides: Preparation and their synthetic applications along with their stereochemical aspects.	03	Organic Chemistry, Clayden Greeves	Blackboard and ppt.

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			Warren and Wothers,	
	Wittig reaction, Horner-Wadsworth-Emmons Reaction, Barton-Kellogg olefination.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	α-C-H functionalization: By nitro, sulfoxide, sulfone and phosphonate groups: generation of carbanions by strong bases (LDA/n-butyl lithium) and applications in C-C bond formation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Bamford-Stevens reaction, Julia olefination and its modification, Seyferth–Gilbert homologation, Steven's Rearrangement.	02	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand importance of organosilicons, organoboron and organotin compounds in organic synthesis.
Study application of mercury, selenium in organic synthesis.
Study application of silyl enol ethers in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-IV, Metals / Non-metals in organic synthesis**	Mercury in organic synthesis: Mechanism and regiochemistry of oxymercuration and demercuration of alkenes, mercuration of aromatics, transformation of aryl mercurials to aryl halides. Organomercurials as carbene transfer reagents.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Organoboron compounds: Mechanism and regiochemistry of hydroboration of alkenes and alkynes, asymmetric hydroboration using chiral boron reagents, 9-BBN hydroboration, oxazaborolidine (CBS catalyst) and functional group reduction by diborane.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Organosilicons: Salient features of silicon governing the reactivity of organosilicons, preparation and important bond-forming reactions of alkyl silanes, alkenyl silanes, aryl silanes and allyl silanes. β-silyl cations as intermediates. Iodotrimethylsilane in organic synthesis.	03	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,.	Blackboard and ppt.

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	Silyl enol ethers: Application: As nucleophiles (Michael reaction, Mukaiyama aldol reaction), in ring contraction reactions.	02	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz,	Blackboard and ppt.
	Organotin compounds: Preparation of alkenyl and allyl tin compounds; application in C-C bond formation, in replacement of halogen by H at the same C atom. Selenium in organic synthesis: Preparation of selenols/selenoxide, selenoxide elimination to create unsaturation, selenoxide and seleno acetals as α-C-H activating groups	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand primary and secondary metabolites and the building blocks.
Study Acetate pathway: Biosynthesis of malonylCoA.
Study Shikimic Acid pathway and mevalonate pathway.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-IV, Medicinal , Biogenesis and green chemistry **UNIT-III, Biogenesis and biosynthesis of natural products**	Primary and secondary metabolites and the building blocks, general pathway of amino acid biosynthesis.	03	Natural product chemistry, A mechanistic, biosynthetic and ecological approach, Kurt B. G. Torssell, Apotekarsocieteten – Swedish pharmaceutical press.	Blackboard and ppt.
	Acetate pathway: Biosynthesis of malonylCoA, saturated fatty acids, prostaglandins from arachidonic acid, aromatic polyketides.	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Shikimic Acid pathway: Biosynthesis of shikimic acid, aromatic amino acids, cinnamic acid and its derivatives, lignin and lignans, benzoic acid and its derivatives, flavonoids and isofalvonoids.	04	Natural products Chemistry and applications, Sujata V Bhat, B.A. Nagasampagi and S. Meenakshi, Narosa Publishing House.,.	Blackboard and ppt.
	Mevalonate pathway: Biosynthesis of mevalonic acid, monoterpenes – geranyl cation and its derivatives, sesquiterpenes – farnesyl cation and its derivatives and diterpenes.	04	Natural Product Chemistry Vol.1 and 2, K. Nakanishi J. Goto. S.Ito Majori and S. Nozoo, Academic Press, 1974	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec-22 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study polymers, their classification, stereochemistry and applications.
Understand concept of biodegradable polymers
Learn catalysts and reagents with respect to functional group transformations and selectivity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Polymer, Catalysts and Reagents**	Terms; monomer, polymer, homopolymer, copolymer, thermo plastics and thermosets. Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, Uses. Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins.Uses	03	Textbook, Himalaya publication	Blackboard and ppt.
	Stereochemistry of polymers: Tacticity, mechanism of stereochemical control of polymerization using Ziegler Natta catalysts. Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 and 1,4 addition (cis and trans), Styrene butadiene copolymer. Additives to polymers: Plasticisers, stabilizers and fillers.	03	Polymer science – a text book by Ahluwalia and Mishra	Blackboard and ppt.

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	Biodegradable polymers: Classification and uses. polylactic acid structure, properties and use for packaging and medical purposes.,	02	Textbook, Himalaya publication	Blackboard and ppt.
	Catalysts for hydrogenation: a. Raney Nickel b. Pt and PtO_2 (C=C, CN, NO_2, aromatic ring) c. Pd/C : C=C, COCl→CHO (Rosenmund) d. Lindlar catalyst: alkynes,	04	Oranic chemistry by Carey and Sundberg, Part A & B	Blackboard and ppt.
	Reagents**:** a. $LiAlH_4$ (reduction of CO, COOR, CN,NO_2) b. $NaBH_4$ (reduction of CO) c. SeO_2 (Oxidation of CH_2 alpha to CO) d. mCPBA (epoxidation of C=C) e. NBS (allylic and benzylic bromination)	03	Organic chemistry by Morrision and Boyd,7_{th} edition	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: /January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study principles of physical organic chemistry and structural effects and reactivity.
Study linear free energy relationship (LFER) in determination of organic reaction mechanism.
Learn uses of Hammett equation.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, Theoretical organic chemistry-II **UNIT-I, Physical organic chemistry**	Asymmetric synthesis: Principles of asymmetric synthesis: Introduction, the chiral pool in Nature, methods of asymmetric induction – substrate, reagent and catalyst controlled reactions.	03	Organic Chemistry, J. Clayden, S. Warren, N. Greeves, P. Wothers, 1st Edition, Oxford University Press (2001).	Chalk/ marker pen and board
	Synthesis of L-DOPA [Knowles's Mosanto process]. Asymmetric reactions with mechanism: Aldol and related reactions, Cram's rule, Felkin-Anh model,	04	A guide to mechanism in Organic Chemistry, 6th edition, 2009, Peter Sykes,	Chalk/ marker pen and board
	Sharpless enantioselective epoxidation, hydroxylation, aminohydroxylation, Diels-Alder reaction, reduction of prochiral carbonyl compounds and olefins.	05	Advanced Organic Chemistry: Reaction Mechanisms, R. Bruckner, Academic Press	Chalk/ marker pen and board
	Use of chiral auxiliaries in diastereoselective reductions, asymmetric amplification. Use of chiral BINOLs, BINAPs and chiral oxazolines asymmetric transformations.	03	Organic Chemistry, Part A and B, Fifth	Chalk/ marker pen and board.

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			edition,2007, Francis A. Carey and Richard J. Sundberg,	
	Grunwald-Winstein equation, Dimroth’s E_T parameter, Solvatochromism Zscale, Spectroscopic Correlations, Thermodynamic Implications.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

UNDERSTAND CONCEPTS OF Electro-organic chemistry IN DETAIL.
Study cathodic reduction and anodic oxidation and its application in organic synthesis with mechanistic pathways.
Learn organocatalysts and Pd catalysed cycloaddition reactions
Study applications of selected methods of organic synthesis like crown ethers, cryptands, micelles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II,	Electrode potential, cell parameters, electrolyte, working electrode, choice of solvents, supporting electrolytes.	02	Advanced Organic Chemistry, Part	Blackboard and ppt.

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Synthetic organic chemistry-II **UNIT-III, Electro-organic chemistry and Selected methods of Organic synthesis**			A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	
	Cathodic reduction: Reduction of alkyl halides, aldehydes, ketones, Nitro compounds, olefins, arenes, electro-dimerization.	02	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Anodic oxidation: Oxidation of alkylbezene, Kolbe reaction, Non-Kolbe oxidation, Shono oxidation..	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Selected Methods of Organic synthesis, Applications of the following in organic synthesis: Crown ethers, cryptands, micelles, cyclodextrins, catenanes. Organocatalysts: Proline, Imidazolidinone. Pd catalysed cycloaddition reactions: Stille reaction, Saeguse-Ito oxidation to enones, Negishi coupling	05	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Use of Sc(OTf), and Yb(OTf) as water tolerant Lewis acid catalyst in aldol condensation, Michael reaction, Diels-Alder reaction, Friedel – Crafts reaction.	03	Chem.Rev. 2002, 102, 2227-2302, Rare Earth Metal Triflates in	Blackboard and ppt.

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			Organic Synthesis, S. Kobayashi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To gain knowledge of basic concepts of organometalic chemistry.
Understand importance of palladium in organic synthesis.
Study application of Ce, Sm, Ni, Co, Fe, Rh, and Cr in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic organic chemistry-II **UNIT-IV,**	Introduction to basic concepts: 18 electron rule, bonding in transition metal complexes, C-H activation, oxidative addition, reductive elimination, migratory insertion.	03	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz, W.H. Freeman and Company, (2007).	Blackboard and ppt.

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Transition and rare earth metals in organic synthesis	Palladium in organic synthesis: π-bonding of Pd with olefins, applications in C-C bond formation, carbonylation, alkene isomerisation, cross-coupling of organometallics and halides.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Heck reaction, Suzuki-Miayura coupling, Sonogashira reaction and Wacker oxidation. Heteroatom coupling for bond formation between aryl/vinyl groups and N, S, or P atoms. Olefin metathesis using Grubb’s catalyst.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Application of Ni, Co, Fe, Rh, and Cr carbonyls in organic synthesis.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.
	Application of samarium iodide including reduction of organic halides, aldehydes and ketones, α-functionalised carbonyl and nitro compounds. Application of Ce(IV) in synthesis of heterocyclic quinoxaline derivatives and its role as a de-protecting agent.	02	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: I MONTH: August 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand thermodynamic terms and state functions and path functions.
Study first law of thermodynamics in detail.
Study calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-I Chemical Thermodynamics And Chemical Calculations**	Thermodynamic terms: System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law of thermodynamics	03	Text book Himalaya publication	Black board and ppt
	First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement of first law, enthalpy, relation between heat capacities, sign conventions, calculations of heat (q), work (w), internal energy (U), and enthalpy (H)	03	Atkins P.W. and Paula J.de, Atkin's Physical Chemistry, 10th Ed.	Black board and ppt
	Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules, enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation	04	Text book Himalaya publication	Black board and ppt
	Expressing concentration of solutions: Normality, molality, molarity, formality, mole fractions, weight ratio,	02	Text book	Black board and ppt

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			Himalaya publication	
	volume ratio, weight to volume ratio, ppm, ppb, millimoles, milliequivalents , Numericals.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Introduce classical methods of chemical analysis.
Appreciate the various terms and types of titrimetric analysis.
Ability to select proper titrimetric method
Appreciate the usefulness of the gravimetric method of analysis
Identify a suitable gravimetric method
Perform the required calculations involved in the analysis by titrimetry as well as gravimetry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Titrimetric Methods, Terms involved in Titrimetric methods of analysis. Comparing volumetry and Titrimetry The Conditions suitable for titrimetry Types of titrimetry – Neutralisation (Acidimetry, alkalimetry), Redox, Iodometry, Iodimetry.	02	Text book Himalaya publication	Black board and ppt

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PAPER-Chemistry Paper-III **UNIT-II Classical Methods of Analysis**	Precipitation and Complexometric titrations and indicators used in these titrations, Tools of Titrimetry: Graduated glasswares and Callibration, Standard solutions (Primary and Secondary standards in Titrimetry) and Calculations in Titrimetry.	02	Text book Seth publication	Black board and ppt
	Concept of pH and its importance in Neutralisation Titrations End point and Equivalence point of Neutralisation titrations Determination of End point by using i. Indicators causing colour change ii. Change in potential, (by potentiometry) iii.Change in conductance (by conductometry). Construction of titration curve (on the basis of change in pH)of a titration.	04	Skoog et al. Fundamentals of Analytical chemistry Cengage Learning, Eight Edition, chapter 13, 14 and 15	Black board and ppt
	Types of Gravimetric Methods – Precipitation Gravimetry: i. Steps involved in precipitation gravimetry analysis	02	Text book Seth publication	Black board and ppt
	Conditions for precipitation iii. Completion of precipitation, iv. Role of Digestion, Filtration, Washing, Drying Ignition of precipitate.	02	Text book Himalaya publication	Black board and ppt
	Applications of Gravimetric Analysis: Determination of sulfur in organic compounds; Estimation of Nickel in Cu-Ni alloy using dimethyl glyoxime; Determination of Aluminum by converting it to its oxide.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF GPyadhay.

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NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To describe the reactions of halogenated and oxygenated organic compounds of aliphatic and aromatic hydrocarbons
To predict the reactivity and stereochemistry of halogenated and oxygenated organic compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-III Alkyl And Aryl Halides and Compounds Containing Oxygen - Alcohols, Phenols, Ethers, & Epoxides**	Haloalkanes i. Nucleohilic substitution: SN1, SN2 & SNi, Mechanism and Stereochemistry ii. Factors affecting nucleophilic substitution: Substrate, Solvent, Reagent, Leaving group	02	Text book Himalaya publication	Black board and ppt
	Haloarenes i. Reactivity of aryl halides towards nucleophilic substitution ii. Mechanism of nucleophilic aromatic substitution: Addition-Elimination (SNAr); Elimination-Addition (Benzyne)	03	Text book Seth publication	Black board and ppt
	Alcohols & phenols i. Physical properties: Hydrogen bonding (types); effect of Hbonding on properties (o- & p-nitrophenol); comparison of acidity of alcohols & phenols; acidity of substituted phenols ii. Preparation & of alcohols: industrial preparation (fermentation); hydration of alkenes; hydrolysis of alkyl halides	03	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt
	iii. Reactions of alcohols- with sodium, HX (Lucas test), esterification, Oppenaeur oxidation iv. Preparation of phenol- cumene hydroperoxide method	02	Text book Seth publication	Black board and ppt

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	v. Reactions of phenols: O-alkylation & O-acylation; Schotten-Baumen reaction, Fries rearrangement, Claisen rearrangement			
	Ethers & Epoxides i. Preparation of ethers - Williamson's synthesis ii. Reaction of ethers - cleavage of ethers with HI iii. Preparation of epoxides- peroxyacids (m-CPBA)	02	Text book Himalaya publication	Black board and ppt
	iv. Reactivity & reactions of epoxides- ring opening reactions in acidic (HX, ROH, HCN), basic & neutral conditions (NH3, RMgX & RO-) with reference to regioselectivity	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of complex chemical reactions and their reaction rates.
To learn the role of different phases in solution equilibrium system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II	Types of Complex Chemical reactions i. Reversible or opposing reactions ii. Consecutive reactions iii. Parallel reactions	03	Text book Himalaya publication	Black board and ppt

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UNIT-I Kinetics and Phase equilibria of solutions	(Derivations not expected) iv. Thermal chain reactions: H and Br reaction. (Kinetic expression not expected).			
	Effect of temperature on the rate of reaction i. Arrhenius equation and its derivation ii. Concept of energy of activation (Ea). (Numerical expected) Theories of reaction rates i. Collision theory of unimolecular reaction(Lindemann's approach) and bimolecular reaction ii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	03	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt
	Phase rule & terms involved b) Liquid –liquid mixtures- classification i. Completely miscible liquids ii. Ideal solutions and Raoult's law iii. Deviations from Raoult's law –non-ideal solutions iv. Vapour pressure: composition and temperature; Composition curves of ideal and non-ideal solutions, Numericals	03	Text book Himalaya publication	Black board and ppt
	Partial miscibility of liquids i. Classification on the basis of Critical solution temperature ii. Effect of impurity on partial miscibility of liquids iii. Partially Miscible Liquids with Upper Critical Solution Temperature (Phenol-Water System) iv. Partially Miscible Liquids with Lower Critical Solution Temperature (Triethylamine-Water System) v. Partially Miscible Liquids with Upper and Lower Critical Solution Temperature (Nicotine-Water System)	03	Text book Himalaya publication	Black board and ppt
	Immiscibility of liquids: Principle of steam distillation (Numerical expected)	03	Text book	Black board and ppt

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	e) Nernst distribution law and its applications i. Solvent extraction – method		Himalaya publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc Part II SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of Multi-step synthesis of natural products.
To learn the role of different Prostaglandins, Lipids, Insect growth regulators and Plant growth regulators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-III **UNIT-II Natural products and Spectroscopy**	Multi-step synthesis of natural products: Synthesis of the following natural products with special reference to reagents used, stereochemistry and functional group transformations: [8L] a) Woodward synthesis of Reserpine from benzoquinone b) Corey synthesis of Longifoline from resorcinol c) Gilbert-Stork synthesis of Griseofulvin from phloroglucinol	04	Text book Himalaya publication	Black board and ppt
	d) Corey's Synthesis of Caryophyllene from 2-Cyclohexenone and Isobutylene e) Synthesis of Juvabione from Limonene f) Synthesis of Taxolii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt

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	Prostaglandins: Classification, general structure and biological importance. Structure elucidation of PGE1.	02	Text book Himalaya publication	Black board and ppt
	Lipids: Classification, role of lipids, Fatty acids and glycerol derived from oils and fats. Insect growth regulators: General idea, structures of JH2 and JH3	03	Text book Himalaya publication	Black board and ppt
	Plant growth regulators: Structural features and applications of arylacetic acids, gibberellic acids and triacontanol. Synthesis of triacontanol (synthesis of stearyl magnesium bromide and 12-bromo-1- tetrahydropyranyloxydodecane expected)	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study ideal gas laws, kinetic theory of gases in detail.
Study reversible and irreversible reactions, law of mass action, dynamic equilibria.
Study spontaneity and physical significance of free energy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I UNIT-I Gaseous State, Electrochemistry and Chemical Equilibria and Thermodynamic Parameters	Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's Temperature, Numericals.	04	Text book Himalaya publication	Black board and ppt
	Electrochemistry - Conductance, specific conductance, equivalent conductance, molar conductance, Variation of molar conductance with concentration of strong and weak electrolyte.Reversible electrodes, Electrode potential, standard electrode potential, Galvanic cells, Conventions to represent the galvanic cells, Concept of emf of cell. (Numerical problems expected wherever necessary)	05	Text book Seth publication	Black board and ppt
	Statement of second law of thermodynamics, concepts of entropy and free energy, spontaneity and physical significance of free energy, thermodynamic derivation of equilibrium constant, Numericals.	02	Text book Himalaya publication	Black board and ppt
	relationship between Kc and Kp, Le Chatelier's principle, factors affecting chemical equilibrium, Numericals.	02	Text book Himalaya publication	Black board and ppt
	Thermodynamic derivation of equilibrium constant (Numerical problems expected wherever necessary) Unit II	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study nomenclature, structure and physical properties, acidity of carboxylic acids.
To predict the reactivity, nomenclature, and preparation of aromatic sulphonic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER Chemistry Paper-I **UNIT-III**	Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles.	03	Text book Himalaya publication	Black board and ppt
	Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with $LiAlH_4$, diborane, Hell-Volhard-Zelinsky reaction,Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity.	04	Text book Seth publication	Black board and ppt
	Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. Mechanism of Claisen condensation and Dieckmann condensation.	04	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt

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	Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid,	02	Text book Seth publication	Black board and ppt
	Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation.Reaction with alcohol, phosphorous pentachloride, IPSO substitution.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different Types of catalysis, catalytic activity, specificity and selectivity.
To learn Recapitulation of laws of crystallography and types of crystals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II **UNIT-I Solid State And Catalysis**	laws of crystallography and types of crystals Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice	03	Text book Himalaya publication	Black board and ppt
	Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), X-rays diffraction method of studying crystal lattice structure, structure of NaCl and KCl. Determination of Avogadro's number, Numericals.	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th	Black board and ppt

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			ed., Oxford University, 12 press (2014).	
	Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation	03	Text book Himalaya publication	Black board and ppt
	Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH. Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)	03	Text book Himalaya publication	Black board and ppt
	Effect of particle size and efficiency of nanoparticles as catalyst.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Expected to appreciate the nature of interaction between applied electrical potential and the concentration of the analyte.
The nature of chemical reactions that influence potential of a given cell.
Familiar with the various types of electrodes or half cells.
Appreciate the nature, need and importance of pH.
Expected to know the applications of the various instrumental methods dealt with in this unit.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III **UNIT-II Instrumental Methods-II**	Instruments based on the electrochemical properties of the analytes Potentiometry: Principle, Role of Reference and indicator electrodes	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation reactions with reference to the titration of a Strong acid against a Strong Base (using quinhydrone electrode, Graphical methods for detection of end points.	02	Text book Seth publication	Black board and ppt
	pHmetry: Principle Types of pH meters.	02	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	Construction Working and Care of Combined Glass electrode Applications in Titrimetry (Strtong acid-Strong Base) biological and environmental analysis	02	Text book Seth publication	Black board and ppt
	Conductometry: Principle , Conductivity cell its construction and care.	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation Titrimetry with respect to i. Strong Acid-Strong Base ii. Strong Acid-Weak Base iii. Strong Base-weak Acid iv. Weak Acid- Weak Base. Advantages & limitations of conductometric titrations.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc part II SEMESTER: IV MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study vitamins, their classification, sources and biological importance.
To study Antibiotics their Classification on the basis of activity. Structure elucidation.
To study naturally occurring insecticides: Sources, structure and biological properties.
To study terpenoids, Occurrence, classification, structure elucidation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III	Vitamins: Classification, sources and biological importance of vitamin B1, B2, B6, folic acid, B12, C, D1, E (α-tocopherol), K1, K2, H (β- biotin). [5L] Synthesis of the following: Vitamin A from β-ionone and bromoester moiety. Vitamin B1 including synthesis of pyrimidine and thiazole moieties Vitamin B2 from 3, 4-dimethylaniline and D(-)ribose	03	Text book Himalaya publication	Black board and ppt
	Vitamin B6 from: 1) ethoxyacetylacetone and cyanoacetamide, 2) ethyl ester of N-formyl-DL-alanine (Harris synthesis) Vitamin E (α-tocopherol) from trimethylquinol and phytyl bromide Vitamin K1 from 2-methyl-1, 4-naphthaquinone and phytol.	02	Text book Seth publication	Black board and ppt

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UNIT-II Natural products-IV	Antibiotics: Classification on the basis of activity. Structure elucidation, spectral data of penicillin-G, cephalosporin-C and chloramphenicol. Synthesis of chloramphenicol (from benzaldehyde and β-nitroethanol)	03	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	penicillin-G and phenoxymethylpenicillin from D-penicillamine and t-butyl phthalimide malonaldehyde (synthesis of D-penicillamine and t-butyl phthalimide malonaldehyde expected).	03	Text book Seth publication	Black board and ppt
	Naturally occurring insecticides: Sources, structure and biological properties of pyrethrums (pyrethrin I), rotenoids (rotenone). Synthesis of pyrethrin I.	02	Text book Himalaya publication	Black board and ppt
	Terpenoids: Occurrence, classification, structure elucidation, stereochemistry, spectral data and synthesis of zingiberene	02		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 UNIT 3- Methods of scientific research and writing scientific papers	Reporting practical and project work Writing literature surveys and reviews	3L	*Practical skills in Chemistry,*2nd Ed.,Prentice Hall, Harlow	Offline mode – Chalk and board method
	Organizing a poster display Giving an oral presentation	3L		
	Writing Scientific Papers: Justification for scientific contributions	3L		
	bibliography, description of methods, conclusions	3L		
	the need for illustration, style, publications of scientific work, writing ethics, avoiding plagiarism.	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 202-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 UNIT 1-	Primary .	1L	Dean J. R., Jones, A. M., Holmes, D.,Reed,R.,Wey e rs, J., & Jones, A	Offline mode – Chalk and board method
	Secondary and Tertiary	2L		
	Journal abbreviations, abstracts, current titles, reviews, monographs, dictionaries, text-books, current contents,	2L		
	Introduction to Chemical Abstracts and Beilstein, Subject Index, Substance Index, Author Index, Formula Index, and other Indices with examples.	3L		
	.Web sources, E-journals, Journal access, TOC alerts, Hot articles, Citation Index, Impact factor, H-index,	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

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The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4	E-consortium, UGC infonet, E-books, Internet discussion groups and communities, Blogs, preprint servers, Search engines, Scirus, Google Scholar, ChemIndustry, Wiki databases, ChemSpider, Science Direct, SciFinder, Scopus	3L	Google.com Youtube	Offline mode – Chalk and board method
	The Internet and World wide web, Internet resources for Chemistry, finding and citing published information.	2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

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MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit II: DATA ANALYSIS	Making and recording Measurements, SI units and their use, Scientific methods and design of experiments.	3L	Google.com Youtube *Quantative Chemical Analysis* 6th Ed	Offline mode – Chalk and board method
	Descriptive statistics, choosing and using statistical tests, Chemometrics, Analysis of Variance (ANOVA),	3L		

	Correlation and regression, curve fitting, fitting of linear equations, simple linear cases, weighted linear case, analysis of residuals,	4L		
	general polynomial fitting, linearizing transformations, exponential function fit, r and its abuse, basic aspects of multiple linear regression analysis.	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. (ANALYTICAL CHEMISTRY) SEMESTER: IV

MONTH: JANUARY- APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: learn how to write a project report and scientific papers.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Unit IV: CHEMICAL SAFETY & ETHICAL HANDLING OF CHEMICALS	Safe working procedure and protective environment, protective apparel, emergency procedure, first aid, laboratory ventilation, safe storage and use of hazardous chemicals,	3L	Google.com Youtube Chemical Safety matters – IUPAC IPCS, (1992) Cambridge University Press	Offline mode – Chalk and board method Outer cover of chemicals bottle for symbols study SAFTEY CHART OF Lab
	procedure for working with substances that pose hazards, flammable or explosive hazards, procedures for working with gases at pressures above or below atmospheric pressur, safe storage and disposal of waste chemicals, recovery, recycling	3L 3L		
	reuse of laboratory chemicals, procedure for laboratory disposal of explosives,	3L		
	Identification, verification and segregation of laboratory waste,	3L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: M.Sc. PART-1 (ANALYTICAL CHEMISTRY) SEMESTER: II

MONTH: JANUARY-APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: The Students will able to understand the different terms involved in Chromatography technique and also principle, instrumentation, working, application of Gas chromatography as well HPLC technique

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-IV IV Unit-I Chromatogra ph y	1.1 Recapitulation basic concepts in Chromatography	4L	Google.com Youtube Skoog,Holler	Offline mode – Chalk and board method
	1.2 Concept of plate and rate theories in chromatography	2L		

	1.3 Gas Chromatography: Principle, instrumentation, working and Application	6L		
	1.4 High performance liquid chromatography	2L		
	1.4.1 Principle, instrumentation, working and Application	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 19 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHEETAL JAISWAL DEPARTMENT: CHEMISTRY CLASS: FY BSC PCM SEMESTER: II

MONTH: JANUARY -APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: KTG Theory of gases and Application of free energy with new equation of chemical equilibrium.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 1 UNIT I.Physical Chemistry	1.1 gaseous State -KTG Theory and relationship between Critical Constant and Van der Waals Constant	6L	Himalaya Publication	Offline mode – Chalk and board method
	1.2 Electrochemistry -I- Different terms used in Conductance and Types of free energy with introduction of entropy	4L		
	1.3 Chemical Equilibrium and Thermodynamics parameters	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: TYBSC SEMESTER: VI

MONTH: JAN-MAy ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn the rearrangement reactions and will be able to know new concepts in Carbohydrates.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 3 UNIT 2 - Molecular Rearrangement & Carbohydrates	2.1 MOLECULAR REARRANGEMENT 2.1.1. Pinacol-Pinacolone Rearrangement 2.1.2. Beckmann Rearrangement	2l	Himalaya publishing house College Organic Chemistry TYBSc	Offline mode - chalk and board method
	2.1.3. Favorski Rearrangement 2.1.4. Michael Addition, Wittig Reaction	2l		
	2.2 CARBOHYDRATES 2.2.1. Introduction, Classification, Reducing and non reducing sugars, D L Notation	1l		
	2.2.2. Structures of Monosaccharides : Fischer Projection Formula & Haworth formula, interconversion, Chair conformation with stereochemistry	2l		
	2.2.3. Stereoisomerism of D glucose 2.2.4.Mutarotation in D glucose	8l		

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	2.2.5. Chain lengthening and chain shortening reactions 2.2.6. Reactions of D glucose 2.2.7.Gylcosides			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSC Part I SEMESTER: II

MONTH: FEB - APRIL ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S: The learners will be able to : Various Name reactions and rearrangement reactions in this unit

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 2 Reactions and Rearrangements	2.1. Reactions: Baylis-Hilman reaction, McMurry Coupling, Corey-Fuchs reaction, Nef reaction, Passerini reaction.	3L	Clayden	Offline mode - Chalk and board method
	2.2. Concerted rearrangements: Hofmann, Curtius, Lossen, Schmidt, Wolff, Boulton Katritzky.	3L	Organic Reaction Mechanism V.K.Ahluwali	

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	2.3. Cationic rearrangements: Tiffeneau-Demjanov, Pummerer, Dienone-phenol, Rupe, Wagner-Meerwein.	3L		
	2.4. Anionic rearrangements: Brook, Neber, Von Richter, Wittig, Gabriel–Colman, Payne.	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSc II SEMESTER:IV

MONTH: JAN - MAR ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S:

The learners will be able to : learn the safety precautions and measures what should be taken while working in laboratory during different reasearch field.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 4 CHEMICAL SAFETY & ETHICAL HANDLING OF CHEMICALS	Safe working procedure and protective environment, protective apparel, emergency procedure, first aid, laboratory ventilation, safe storage and use of hazardous chemicals, procedure for working with substances that pose hazards, flammable or explosive hazards, procedures for working with gases at pressures above or below atmospheric pressur, safe storage and disposal of waste chemicals, recovery, recycling and reuse of laboratory chemicals, procedure for laboratory disposal of explosives, identification, verification and segregation of laboratory waste, disposal of chemicals in the sanitary sewer system, incineration and transportation of hazardous chemicals.	12 L	Chemical Safety matters – IUPAC-IPCS, (1992) Cambridge University Press. OSU Safety manual 1.01	Online mode - PowerPoint presentation Offline mode - chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DEEPAK ASHOK PANDEY DEPARTMENT: CHEMISTRY. CLASS: MSc Part II SEMESTER: IV

MONTH: MAR - MAY ACADEMIC YEAR: 2023-24

LEARNING OBJECTIVE/S:
The learners will be able to : synthesis of different organic molecules by retrosynthesis via disconnection of carbon carbon bonds and strategies for selection of starting material.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II Designing Organic Synthesis-II	2.1 General strategy: choosing a disconnection-simplification, symmetry, high yielding steps, and recognisable starting material.	4L	Organic Synthesis: The Disconnection Approach, Stuart Warren, John Wiley & Sons, 2004	Offline mode - Chalk and Board
	2.2 One group C-C Disconnections: Alcohols (including stereoslectivity), carbonyls (including regioselectivity), Alkene synthesis, use of acetylenes and aliphatic nitro compounds in organic synthesis.	6L		
	2.3 Two group C-C Disconnections: 1,2- 1,3- 1,4- 1,5- and 1,6-difunctionalized compounds, Diels-Alder	5L		

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	reactions, α, β-unsaturated compounds, control in carbonyl condensations, Michael addition and Robinson annelation.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June to September

ACADEMIC YEAR: 2022-23 LEARNING OBJECTIVE/S:

The learners will be able to : Chemistry of inner transition elements with respect to their properties,uses and separation technique like ion exchange and solvent extraction technique.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCH 502(paper2) Unit 3	3.1 Introduction:: Position in periodic table and electronic configuration of lanthanides and actinides . 3.2 Chemistry of lanthanides with reference to i) lanthanide contraction ii) Oxidation States iii) ability to form complexesiv) magnetic and spectral properties. 3.3 Occurrence , extraction and separation of lanthanides by i) ion exchange method ii) solvent extraction method , applications of lanthanides	15	Himalaya publication textbook ,Sheth Publication textbook	Chalkboard and duster

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USCHACDD 501 Applied component(Drugs and dyes)) unit 1 and 2	1.1 General Introduction to Drugs 1.1.1 definition of a drug , sources of a drugs 1.1.2 nomenclature of Drugs : generic name,brand name , systematic name. 1.1.3 definition of following terms pharmacon,pharmacology,pharmacophore,half life efficiency,LD50,ED50,GI50,theraputic index. 1.1.4 brief idea of the following terms: receptors,agonists,antagonisyd,drug receptor interaction,drug potency,bioavalibility,drug toxicity,drug addiction,spurious drugs,misbrsnded Drugs,adulterated drugs , pharmacopeia. 1.2 Routes of Drug administration and dosage forms. 1.2.1 Oral and parenteral Routes with advantages and disadvantages 1.2.2Formulations and combination formulation,different dosage forms. 1.3 Pharmacodynamic agents 1.3.1 CNS drugs : Classification based on pharmacological actions :CNS depressant and CNS stimulants,concept of sedation and hypnosis , anaestesia 2.1 Analgesic,antipyretics and Anti -inflammatory drugs. 2.1.1 Analgesics and antipyretics 2.1.2 Anti inflammatory drugs 2.2 Antihistamine drugs. 2.3 Cardiovascular Drugs 2.4 Antidiabetic drugs 2.5 Antiparkinsonism drugs	15 15	Himalaya publication textbook,Sheth Publication textbook	Chalkboard and duster

	2.6 Drugs for respiratory system			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 each

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: M.Sc. SEMESTER: 1 MONTH: August to December

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn chacterisation of coordination compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCH102 (paper 2) unit 4	4.1 Formation,thermal studies,conductivity measurements,electonic,spectral and magnetic measurements,IR,NMRand ESR spectroscopic methods. 4.2 Spectral calculations using Tanabe Sugano diagram,calculations of electronic parameters such as delta,B,C nephelauxatic ratio	15	D.Banerjea,Coordination chemistry. F.A Cotton ,G,Wilkinson , Advanced Inorganic chemistry,6th edition,Wiley	Whiteboard marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. Semester: VI MONTH: Nov To March ACADEMIC YEAR: 2022-2023 The learners will be able to : To learn molecular orbital theory For coordination compounds.p properties of coordination compounds,stability of metal complexes,reactivity of metal complexes and electronic spectra of metal complexes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USCH602(PAPER 2) Unit2	2.1 identification of the central metal orbitals and their symmetry suitable for formation of Sigma bonds with ligand orbitals. 2.2construction of LGO. 2.3constrction of Sigma molecular orbitals of ML6 complexes , effect of pi bonding on complexes. 2.4.Electronic spectra. 2.4.1 origin of electronic spectra. 2.4.2types of electronic transition in coordination compounds 2.4.3 selection rules. 2.4.4electronic configuration and electronic micro states. 2.4.5 determination of terms for P2 and d1 configuration	15	Himalaya publication textbook,Sheth publication textbook	Chalkboard and duster

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TOTAL NUMBER OF LECTURES ALLOCAT esED TO THE UNIT: 15
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: November to March 2020 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn about chemotherapeutic agents,nanoparyicles in medicinal chemistry and also Drugs and environmental aspects

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

USCHACDD 601(Drugs and dyes) Unit 5 and 6	5.1 Drugs discovery,design and development. 5.1.1Discovery of lead compound 5.1.2medicinal properties of compounds. 5.1.3 Development of Drug. 5.1.4 structure modification to increase potency. 5.1.5computer assisted drug design. 5.2 Drug metabolism. 5.3Chemotherapeutic agents. 5.3.1 antibiotics and antivirals. 5.3.2 Antimalarials. 5.3.3anthelmintics and antifungal agents. 6.1 antiamoebic. Drugs. 6.2 antitubercular and antileprotic Drugs.	15	Himalaya publication textbook and Sheth Publication textbook	Chalkboard and duster

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	6.3anti-neoplastic Drugs 6.4 anti-HIV drugs 6.5Drugs intermediate: synthesis and uses. 6.nano particles in medicinal chemistry. 6.7 drugs and environmental aspects	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 each

SIGNATURE OF THE STAFF SIGNATURE OF THE H.O.D.

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Chetan Bhalchandra Meher DEPARTMENT: Chemistry CLASS: M.Sc. SEMESTER: II MONTH: Jan to April 2020

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn about Organometallic chemistry of transportation metals

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PSCH202(unit2)	2.1Eighteen and sixteen electron rule and electron counting with examples. 2.2preparation and properties of following compounds. A)alkyl and aryl derivatives of Pd and Pt complexes. B) carbenes and carbyenes of Cr,Mo and W. C)alkene derivatives of Pd and Pt. D) alkyne derivatives of Pd and Pt. E)allyl derivatives of Ni. F) sandwich compounds of Fe,Cr and half sandwich compounds of Cr and Mo. 2.3 Structure and bonding on the basis of VBT and MOT of organometallic compounds	15	R.C.Mehrotra and A.singu,Organomettalic chemistry,A unified approach,2^{nd} edition	Chalkboard and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tanvi .A. Raul DEPARTMENT: Chemistry

CLASS: F.Y.B.sc (CBZ-A) SEMESTER: I MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about chemical kinetics and liquid state.

To develop the understanding about order of reactions and different instruments used to measure different properties of liquids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit I Physical Chemistry	**1.1 Chemical Kinetics** Rate of reaction, rate constant, measurement of reaction rates, order and molecularity of reaction, integrated rate equation of first and second order reactions (with equal initial concentration of reactants) (Numericals expected) Determination of order of reaction by (a) Integration method (b) Graphical method (c) Ostwald's isolation method (d) Half time method (Numericals expected) **1.2 Liquid State** Surface tension: Introduction, methods of determination of surface tension by drop number method	8 7	Himalaya Publication F.Y.B.sc, Physical chemistry Textbook	Black board and chalk

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	(Numericals expected) Viscosity: Introduction, coefficient of viscosity, relative viscosity, specific viscosity, reduced viscosity, determination of viscosity by Ostwald viscometer (Numericals expected) Refractive index: Introduction, molar refraction and polarizability, determination of refractive index by Abbe's refractometer (Numericals expected) Liquid crystals: Introduction, classification and structure of thermotropic phases (Nematic, smectic and cholesteric phases), applications of liquid crystals :			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.sc (CBZ-A) SEMESTER: II MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

To develop knowledge about Ionic Equilibria, Solid state and Molecular spectroscopy.

To develop understanding about different types of electrolytes and electromagnetic waves.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Paper II Unit I Physical Chemistry	**1.1 Ionic Equilibria** Strong, moderate and weak electrolytes, degree of ionization, factors affecting degree of ionization, ionization constant and ionic product of water, ionization of weak acids and bases, pH scale, common ion effect, dissociation constants of mono di and triprotic acid (exact treatment for monoprotic acid) Buffers: Introduction, types of buffers, derivation of Henderson equation for acidic and basic buffers, buffer action, buffer capacity (Numericals expected) **1.2 Photochemistry** Laws of photochemistry, Quantum yield or efficiency, experimental determination of quantum yield, reasons for	7 4	Himalaya Publication F.Y.B.sc, Physical chemistry Textbook	Black board and chalk

	low and high quantum yield, primary and secondary processes. Photochemical reactions (with suitable examples), Photosensitizers and photosensitized reactions, fluorescence, phosphorescence and chemiluminescence. **1.3 Molecular Spectroscopy** Electromagnetic radiation, electromagnetic spectrum, Planck’s equation, interaction of electromagnetic radiation with matter: Absorption, emission, scattering, flourescence, electronic, vibrational and rotational transitions Beer Lambert’s law (Numericals expected)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc (CBZ-B & BIOCHEM) SEMESTER: I MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge about comparative chemistry of main group elements.

To develop understanding about comparative chemistry of main group elements.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper-II Unit II Chemistry II U	**2.0 Comparative chemistry of Main Group Elements** Metallic and non-metallic nature, oxidation states, electronegativity, anomalous behaviour of second period elements, allotropy, catenation, diagonal relationship. Comparative chemistry of oxides and hydroxides of group I and group II elements. Some important compounds-$NaHCO_3$, Na_2CO_3, CaO, $CaCO_3$; oxides of carbon, oxides of sulphur and nitrogen with respect to environmental aspects like green house effect, photochemical smog and acid rain.	15	Himalaya Publication F.Y.B.sc, Inorganic chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.sc (CBZ-B & BIOCHEM) SEMESTER: II MONTH: JANUARY TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about chemical bond and oxidation reduction chemistry.

To develop understanding about chemical bond and oxidation reduction chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit II Inorganic Chemistry	**2.1:Chemical Bond and Reactivity** Types of chemical bond, comparison between ionic and covalent bonds, polarizability(Fajan’s Rule), shapes of molecules, Lewis dot structure, Sidgwick Powell Theory, basic VSEPR theory for AB_n type molecules with and without lone pair of electrons, isoelectronic principles, applications and limitations of VSEPR theory. **2.2 Oxidation Reduction Chemistry** a)Reduction potentials b)Redox potentials: half reactions; balancing redox equations. c)Applications of redox chemistry i)Redox reagents in Volumetric analysis: a) I2 b) KMnO4 iii)Titration curves:i) single electron systems (example Ce(IV) against Fe(II)); and ii) Multi electron systems as in KMnO4 against Fe(II))	10 5	Himalaya Publication F.Y.B.sc, Inorganic chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

AME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.sc (PC-CZ) SEMESTER: III MONTH: JULY TO NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge about chemical kinetics and solutions.

To develop understanding about different theories based on chemical kinetics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Physical Chemistry I	**1.1 Chemical Kinetics- II** 1.1.1 Types of complex chemical reactions: Reversible or consecutive and parallel reactions. 1.1.2 Effect of temperature on rate of reaction , Arrhenius equations. 1.1.3 Theories of reaction rate : Collision theory, complex theory of biomolecular reactions etc. **1.2 Solutions** 1.2.1 thermodynamics of ideal solutions: Ideal solution and Raoul's law, deviations from Raoul's law- Non ideal solutions, vapour pressure composition and temperature, Lever rule etc.	7 8	Himalaya publication S.Y.B.sc, Physical chemistry textbook	Black board and chalk

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	1.2.2 Partial miscibility of liquids: Critical solution temperature, effect of impurity on partial miscibility of liquids with respect to Phenol-water, Triethannolamine - water and nicotine - water systems. 1.2.3 Immiscibility of liquids Principle of steam distillation, Nernst distribution law and its applications.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.sc (PC-CZ) SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge of solid state and catalysis.

To develop the understanding about state and catalysis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Physical Chemistry I	**1.1 Solid state** 1.1.1 Recapitulation of laws of crystallography and types of crystals. 1.1.2 Characteristics of simple cubic, face centered cubic and body centered cubic systems. 1.1.3 Use of X-ray in study of crystal structure, bragg's equation. **1.2 Catalysis** 1.2.1 types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation. 1.2.2 Mechanisms and kinetics and acid base catalyzed reaction. 1.2.3 Mechanisms and kinetics of enzyme catalyzed reaction. 1.2.4 Effect of particle size and efficiency of nano particles as catalyst.	7 8	Himalaya Publication S.Y.B.sc, Physical chemistry textbook	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: III MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge of body fluids.

To develop understanding about analysis of different body fluids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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Paper III Unit I Bioanalytical chemistry and food analysis	**Bioanalytical chemistry** **1.1Body Fluids** 1.1.1 Composition of body fluids and detection of abnormal levels of glucose, creatinine, uric acid in blood, protein, ketone bodies and bilirubin in urine leading to diagnosis of diseases. 1.1.2 Physiological and nutritional significance of vitamins (water soluble and fat soluble) and minerals. 1.1.3 Analytical techniques (including microbiological techniques) for vitamins.	5 5 5	General, organic and biological chemistry, H. Stephen Stoker, Cengage Learning.	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: III MONTH: AUGUST TO DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop the knowledge about cosmetics.

To develop understanding about different elements present in cosmetics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper IV Unit IV Pharmaceutical and Organic Analysis	**Cosmetic Analysis** **4.1 Cosmetics** Introduction. Evaluation of cosmetic materials, raw materials and additives. Formulation, standards and methods of analysis. **4.2 Deodorants and antiperspirant** Al, Zn, Boric acid, chlorides, sulphates, hexachlorophene, methanamine, phenolsulphonates and urea. **4.3 Face powder** Fats, fatty acids, boric acid, barium sulphate, Ca, Mg, Ti, Fe, oxides of Ti, Fe and Al. **4.4 Hair tonic** 2,5-diaminotoluene, potassium borates, sodium perborate, pyrogallol, resorcinol, salicylic acid, dithioglycollic acid (inpermanent wavers).	2 3 3 3	Google	Black board and chalk

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	4.5 Creams and Lotions Types of emulsions, chloroform soluble materials, glycerol, pH emulsion, ash analysis, nonvolatile matter (IR spectroscopy) . **4.6 Lipsticks** General analysis, determination of -nonvolatile matter, lakes and fillers, trichloroethylene-acetone soluble contents.	2 2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to :

Develop knowledge of hyphenated techniques.

To develop understanding of hyphenated techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper II Unit IV	**Hyphenated Techniques** 4.1 concept of hyphenation, need for hyphenation, possible hyphenations. 4.2 Interfacing devices and applications of GC – MS, ICP - MS, GC -IR, Tandem Mass Spectrometry, LC – MS: HPLC-MS, CE-MS.	2 13	Principles of Instrumental Analysis, D. A. Skoog, F. J. Holler and J.A. Niemann 5 th Ed.	Black board and chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TANVI .A. RAUL DEPARTMENT: CHEMISTRY

CLASS: M.sc PART II SEMESTER: IV MONTH: JANUARY TO MAY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

Develop knowledge of effluent treatment.

To develop understanding about different steps involved in effluent treatment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper III Unit I	**Effluent Treatment** 1.1 Effluent treatment plant general construction and process flow charts. 1.2Treatment and disposal of Sewage. 1.3. Effluent parameters for metallurgical industry. 1.4Permissible limits for metal (example Cr, As, Pb, Cd etc) traces in the effluent. 1.5 Recovery of metals from effluent, modern methods – Electrodialysis,Electrodeposition and Ion Exchange etc.	3 3 2 2 3	Water and water pollution (hand book) Ed., Seonard’I Ciacere, Vol I to IV, Marcel Dekker inc. N.Y.(1972)	Black board and chalk

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	1.6Recycle and reuse of process and treated (effluent) water.	2		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: I MONTH: August 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand thermodynamic terms and state functions and path functions.
Study first law of thermodynamics in detail.
Study calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-I Chemical Thermodynamics And Chemical Calculations**	Thermodynamic terms: System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law of thermodynamics	03	Text book Himalaya publication	Black board and ppt
	First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement of first law, enthalpy, relation between heat capacities, sign conventions, calculations of heat (q), work (w), internal energy (U), and enthalpy (H)	03	Atkins P.W. and Paula J.de, Atkin's Physical Chemistry, 10th Ed.	Black board and ppt
	Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules, enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation	04	Text book Himalaya publication	Black board and ppt
	Expressing concentration of solutions: Normality, molality, molarity, formality, mole fractions, weight ratio,	02	Text book	Black board and ppt

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			Himalaya publication	
	volume ratio, weight to volume ratio, ppm, ppb, millimoles, milliequivalents , Numericals.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Introduce classical methods of chemical analysis.
Appreciate the various terms and types of titrimetric analysis.
Ability to select proper titrimetric method
Appreciate the usefulness of the gravimetric method of analysis
Identify a suitable gravimetric method
Perform the required calculations involved in the analysis by titrimetry as well as gravimetry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Titrimetric Methods, Terms involved in Titrimetric methods of analysis. Comparing volumetry and Titrimetry The Conditions suitable for titrimetry Types of titrimetry – Neutralisation (Acidimetry, alkalimetry), Redox, Iodometry, Iodimetry.	02	Text book Himalaya publication	Black board and ppt

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PAPER-Chemistry Paper-III **UNIT-II Classical Methods of Analysis**	Precipitation and Complexometric titrations and indicators used in these titrations, Tools of Titrimetry: Graduated glasswares and Callibration, Standard solutions (Primary and Secondary standards in Titrimetry) and Calculations in Titrimetry.	02	Text book Seth publication	Black board and ppt
	Concept of pH and its importance in Neutralisation Titrations End point and Equivalence point of Neutralisation titrations Determination of End point by using i. Indicators causing colour change ii. Change in potential, (by potentiometry) iii.Change in conductance (by conductometry). Construction of titration curve (on the basis of change in pH)of a titration.	04	Skoog et al. Fundamentals of Analytical chemistry Cengage Learning, Eight Edition, chapter 13, 14 and 15	Black board and ppt
	Types of Gravimetric Methods – Precipitation Gravimetry: i. Steps involved in precipitation gravimetry analysis	02	Text book Seth publication	Black board and ppt
	Conditions for precipitation iii. Completion of precipitation, iv. Role of Digestion, Filtration, Washing, Drying Ignition of precipitate.	02	Text book Himalaya publication	Black board and ppt
	Applications of Gravimetric Analysis: Determination of sulfur in organic compounds; Estimation of Nickel in Cu-Ni alloy using dimethyl glyoxime; Determination of Aluminum by converting it to its oxide.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To describe the reactions of halogenated and oxygenated organic compounds of aliphatic and aromatic hydrocarbons
To predict the reactivity and stereochemistry of halogenated and oxygenated organic compounds

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-I **UNIT-III Alkyl And Aryl Halides and Compounds Containing Oxygen - Alcohols, Phenols, Ethers, & Epoxides**	Haloalkanes i. Nucleohilic substitution: SN1, SN2 & SNi, Mechanism and Stereochemistry ii. Factors affecting nucleophilic substitution: Substrate, Solvent, Reagent, Leaving group	02	Text book Himalaya publication	Black board and ppt
	Haloarenes i. Reactivity of aryl halides towards nucleophilic substitution ii. Mechanism of nucleophilic aromatic substitution: Addition-Elimination (SNAr); Elimination-Addition (Benzyne)	03	Text book Seth publication	Black board and ppt
	Alcohols & phenols i. Physical properties: Hydrogen bonding (types); effect of Hbonding on properties (o- & p-nitrophenol); comparison of acidity of alcohols & phenols; acidity of substituted phenols ii. Preparation & of alcohols: industrial preparation (fermentation); hydration of alkenes; hydrolysis of alkyl halides	03	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt
	iii. Reactions of alcohols- with sodium, HX (Lucas test), esterification, Oppenaeur oxidation iv. Preparation of phenol- cumene hydroperoxide method	02	Text book Seth publication	Black board and ppt

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	v. Reactions of phenols: O-alkylation & O-acylation; Schotten-Baumen reaction, Fries rearrangement, Claisen rearrangement			
	Ethers & Epoxides i. Preparation of ethers - Williamson's synthesis ii. Reaction of ethers - cleavage of ethers with HI iii. Preparation of epoxides- peroxyacids (m-CPBA)	02	Text book Himalaya publication	Black board and ppt
	iv. Reactivity & reactions of epoxides- ring opening reactions in acidic (HX, ROH, HCN), basic & neutral conditions (NH3, RMgX & RO-) with reference to regioselectivity	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of complex chemical reactions and their reaction rates.
To learn the role of different phases in solution equilibrium system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II	Types of Complex Chemical reactions i. Reversible or opposing reactions ii. Consecutive reactions iii. Parallel reactions	03	Text book Himalaya publication	Black board and ppt

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UNIT-I Kinetics and Phase equilibria of solutions	(Derivations not expected) iv. Thermal chain reactions: H and Br reaction. (Kinetic expression not expected).			
	Effect of temperature on the rate of reaction i. Arrhenius equation and its derivation ii. Concept of energy of activation (Ea). (Numerical expected) Theories of reaction rates i. Collision theory of unimolecular reaction(Lindemann's approach) and bimolecular reaction ii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	03	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10^{th} ed., Oxford University, 12 press (2014).	Black board and ppt
	Phase rule & terms involved b) Liquid –liquid mixtures- classification i. Completely miscible liquids ii. Ideal solutions and Raoult's law iii. Deviations from Raoult's law –non-ideal solutions iv. Vapour pressure: composition and temperature; Composition curves of ideal and non-ideal solutions, Numericals	03	Text book Himalaya publication	Black board and ppt
	Partial miscibility of liquids i. Classification on the basis of Critical solution temperature ii. Effect of impurity on partial miscibility of liquids iii. Partially Miscible Liquids with Upper Critical Solution Temperature (Phenol-Water System) iv. Partially Miscible Liquids with Lower Critical Solution Temperature (Triethylamine-Water System) v. Partially Miscible Liquids with Upper and Lower Critical Solution Temperature (Nicotine-Water System)	03	Text book Himalaya publication	Black board and ppt
	Immiscibility of liquids: Principle of steam distillation (Numerical expected)	03	Text book	Black board and ppt

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	e) Nernst distribution law and its applications i. Solvent extraction – method		Himalaya publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc Part II SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different types of Multi-step synthesis of natural products.
To learn the role of different Prostaglandins, Lipids, Insect growth regulators and Plant growth regulators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III **UNIT-II Natural products and Spectroscopy**	Multi-step synthesis of natural products: Synthesis of the following natural products with special reference to reagents used, stereochemistry and functional group transformations: [8L] a) Woodward synthesis of Reserpine from benzoquinone b) Corey synthesis of Longifoline from resorcinol c) Gilbert-Stork synthesis of Griseofulvin from phloroglucinol	04	Text book Himalaya publication	Black board and ppt
	d) Corey's Synthesis of Caryophyllene from 2-Cyclohexenone and Isobutylene e) Synthesis of Juvabione from Limonene f) Synthesis of Taxolii. Activated complex theory of bimolecular reactions iii. Comparison of the two theories (Qualitative treatment only)	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th ed., Oxford University, 12 press (2014).	Black board and ppt

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	Prostaglandins: Classification, general structure and biological importance. Structure elucidation of PGE1.	02	Text book Himalaya publication	Black board and ppt
	Lipids: Classification, role of lipids, Fatty acids and glycerol derived from oils and fats. Insect growth regulators: General idea, structures of JH2 and JH3	03	Text book Himalaya publication	Black board and ppt
	Plant growth regulators: Structural features and applications of arylacetic acids, gibberellic acids and triacontanol. Synthesis of triacontanol (synthesis of stearyl magnesium bromide and 12-bromo-1- tetrahydropyranyloxydodecane expected)	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: F.Y.B.Sc. SEMESTER: II MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study ideal gas laws, kinetic theory of gases in detail.
Study reversible and irreversible reactions, law of mass action, dynamic equilibria.
Study spontaneity and physical significance of free energy.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- **Chemistry Paper-I** **UNIT-I** **Gaseous State, Electrochemistry and** **Chemical Equilibria and Thermodynamic Parameters**	Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities (qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's Temperature, Numericals.	04	Text book Himalaya publication	Black board and ppt
	Electrochemistry - Conductance, specific conductance, equivalent conductance, molar conductance, Variation of molar conductance with concentration of strong and weak electrolyte.Reversible electrodes, Electrode potential, standard electrode potential, Galvanic cells, Conventions to represent the galvanic cells, Concept of emf of cell. (Numerical problems expected wherever necessary)	05	Text book Seth publication	Black board and ppt
	Statement of second law of thermodynamics, concepts of entropy and free energy, spontaneity and physical significance of free energy, thermodynamic derivation of equilibrium constant, Numericals.	02	Text book Himalaya publication	Black board and ppt
	relationship between Kc and Kp, Le Chatelier's principle, factors affecting chemical equilibrium, Numericals.	02	Text book Himalaya publication	Black board and ppt
	Thermodynamic derivation of equilibrium constant (Numerical problems expected wherever necessary) Unit II	02	Text book Himalaya publication	Black board and ppt

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study nomenclature, structure and physical properties, acidity of carboxylic acids.
To predict the reactivity, nomenclature, and preparation of aromatic sulphonic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER Chemistry Paper-I **UNIT-III**	Nomenclature, structure and physical properties, acidity of carboxylic acids, effects of substituents on acid strength of aliphatic and aromatic carboxylic acids. Preparation of carboxylic acids: oxidation of alcohols and alkyl benzene, carbonation of Grignard and hydrolysis of nitriles.	03	Text book Himalaya publication	Black board and ppt
	Reactions: Acidity, salt formation, decarboxylation, Reduction of carboxylic acids with $LiAlH_4$, diborane, Hell-Volhard-Zelinsky reaction,Conversion of carboxylic acid to acid chlorides, esters, amides and acid anhydrides and their relative reactivity.	04	Text book Seth publication	Black board and ppt
	Mechanism of nucleophilic acyl substitution and acid-catalysed nucleophilic acyl substitution. Interconversion of acid derivatives by nucleophilic acyl substitution. Mechanism of Claisen condensation and Dieckmann condensation.	04	Morrison, R. T.; Boyd, R. N. (2012). *Organic Chemistry*. Dorling Kindersley (India) Pvt. Ltd. (Pearson Education).	Black board and ppt

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	Nomenclature, preparation of aromatic sulphonic acids by sulphonation of benzene (with mechanism), toluene and naphthalene, Reactions: Acidity of arene sulfonic acid,	02	Text book Seth publication	Black board and ppt
	Comparative acidity of carboxylic acid and sulfonic acids. Salt formation, desulphonation.Reaction with alcohol, phosphorous pentachloride, IPSO substitution.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study different Types of catalysis, catalytic activity, specificity and selectivity.
To learn Recapitulation of laws of crystallography and types of crystals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-II **UNIT-I Solid State And Catalysis**	laws of crystallography and types of crystals Characteristics of simple cubic, face centered cubic and body centered cubic systems, interplanar distance in cubic lattice	03	Text book Himalaya publication	Black board and ppt
	Use of X-rays in the study of crystal structure, Bragg's equation (derivation expected), X-rays diffraction method of studying crystal lattice structure, structure of NaCl and KCl. Determination of Avogadro's number, Numericals.	04	Atkins P. W., and Paula J. De, *Physical Chemistry*, 10th	Black board and ppt

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			ed., Oxford University, 12 press (2014).	
	Types of catalysis, catalytic activity, specificity and selectivity, inhibitors, catalyst poisoning and deactivation	03	Text book Himalaya publication	Black board and ppt
	Mechanisms and kinetics of acid-base catalyzed reactions, effect of pH. Mechanisms and kinetics of enzyme catalyzed reactions (Michaelis-Menten equation)	03	Text book Himalaya publication	Black board and ppt
	Effect of particle size and efficiency of nanoparticles as catalyst.	02	Text book Himalaya publication	Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: S.Y.B.Sc. SEMESTER: IV MONTH: November 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Expected to appreciate the nature of interaction between applied electrical potential and the concentration of the analyte.
The nature of chemical reactions that influence potential of a given cell.
Familiar with the various types of electrodes or half cells.
Appreciate the nature, need and importance of pH.
Expected to know the applications of the various instrumental methods dealt with in this unit.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER- Chemistry Paper-III **UNIT-II Instrumental Methods-II**	Instruments based on the electrochemical properties of the analytes Potentiometry: Principle, Role of Reference and indicator electrodes	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation reactions with reference to the titration of a Strong acid against a Strong Base (using quinhydrone electrode, Graphical methods for detection of end points.	02	Text book Seth publication	Black board and ppt
	pHmetry: Principle Types of pH meters.	02	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	Construction Working and Care of Combined Glass electrode Applications in Titrimetry (Strtong acid-Strong Base) biological and environmental analysis	02	Text book Seth publication	Black board and ppt
	Conductometry: Principle , Conductivity cell its construction and care.	03	Text book Himalaya publication	Black board and ppt
	Applications in Neutralisation Titrimetry with respect to i. Strong Acid-Strong Base ii. Strong Acid-Weak Base iii. Strong Base-weak Acid iv. Weak Acid- Weak Base. Advantages & limitations of conductometric titrations.	03		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SEEMA JADHAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc part II SEMESTER: IV MONTH: January 2023 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To study vitamins, their classification, sources and biological importance.
To study Antibiotics their Classification on the basis of activity. Structure elucidation.
To study naturally occurring insecticides: Sources, structure and biological properties.
To study terpenoids, Occurrence, classification, structure elucidation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-Chemistry Paper-III	Vitamins: Classification, sources and biological importance of vitamin B1, B2, B6, folic acid, B12, C, D1, E (α-tocopherol), K1, K2, H (β- biotin). [5L] Synthesis of the following: Vitamin A from β-ionone and bromoester moiety. Vitamin B1 including synthesis of pyrimidine and thiazole moieties Vitamin B2 from 3, 4-dimethylaniline and D(-)ribose	03	Text book Himalaya publication	Black board and ppt
	Vitamin B6 from: 1) ethoxyacetylacetone and cyanoacetamide, 2) ethyl ester of N-formyl-DL-alanine (Harris synthesis) Vitamin E (α-tocopherol) from trimethylquinol and phytyl bromide Vitamin K1 from 2-methyl-1, 4-naphthaquinone and phytol.	02	Text book Seth publication	Black board and ppt

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UNIT-II Natural products-IV	Antibiotics: Classification on the basis of activity. Structure elucidation, spectral data of penicillin-G, cephalosporin-C and chloramphenicol. Synthesis of chloramphenicol (from benzaldehyde and β-nitroethanol)	03	Principles of Instrumental analysis, D. A. Skoog, 3rd Edition, Chapters: 20, 23	Black board and ppt
	penicillin-G and phenoxymethylpenicillin from D-penicillamine and t-butyl phthalimide malonaldehyde (synthesis of D-penicillamine and t-butyl phthalimide malonaldehyde expected).	03	Text book Seth publication	Black board and ppt
	Naturally occurring insecticides: Sources, structure and biological properties of pyrethrums (pyrethrin I), rotenoids (rotenone). Synthesis of pyrethrin I.	02	Text book Himalaya publication	Black board and ppt
	Terpenoids: Occurrence, classification, structure elucidation, stereochemistry, spectral data and synthesis of zingiberene	02		Black board and ppt

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF Gyadhay.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: V MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand UV – Visible spectroscopy, its basic theory and applications.
Study mass spectrometry, determination of molecular formula and its applications.
Learn natural products like terpenoids, alkaloids in detail.
To gain knowledge of hormones like adrenaline.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Spectroscopy-I And Natural Products**	Electromagnetic spectrum, units of wavelength and frequency, UV – Visible spectroscopy: Basic theory, solvents, nature of UV-Visible spectrum, concept of chromophore, auxochrome.	02	Introduction to spectroscopy (third edition), Pavia	Blackboard and ppt.
	Mass spectrometry: Basic theory. Nature of mass spectrum. General rules of fragmentation. Importance of molecular ion peak, isotopic peaks, base peak, nitrogen rule, rule of 13 for determination of empirical formula and molecular formula	03	Spectral identification of organic molecules by Silverstein.	Blackboard and ppt.
	Natural products: terpenoids, their introduction, isoprene rule, special isoprene rule, structural determination of citral,	04	Textbook, Himalaya publication	Blackboard and ppt.

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	Alkaloids introduction and occurrence, structural determination of nicotine,	04	Textbook, Himalaya publication	Blackboard and ppt.
	Hormones: Introduction, structure of adrenaline (epinephrine), physiological action of adrenaline.	02	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt. .

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study role of radicals in organic synthesis and their applications in detail.
Learn generation, stability, reactivity and structural and stereochemical properties of free radicals,.
Study characteristic reactions and applications of radicals in synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-II, Synthetic Organic Chemistry-I **UNIT-II, Radicals in organic synthesis**	Stability, reactivity and structural and stereochemical properties of free radicals, Persistent and charged radicals, Electrophilic and nucleophilic radicals. Radical Initiators: azobisisobutyronitrile (AIBN) and dibenzoyl peroxide.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg, 5th Edition,	Blackboard and ppt.
	Characteristic reactions - free radical substitution, addition to multiple bonds. Radical chain reactions, radical halogenation of hydrocarbons (regioselectivity),radical cyclizations, autoxidations	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Radicals in synthesis: Inter and intra molecular C-C bond formation via mercuric hydride, tin hydride, thiol donors. Cleavage of C-X, C-Sn, C-Co, C-S, O-O bonds. Oxidative coupling, C-C bond formation in aromatics: $S_{RN}Ar$ reactions.	04	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Hunsdiecker reaction, Pinacol coupling, McMurry coupling, Sandmeyer reaction, Acyloin condensation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study enamines, their generation & application in organic synthesis with mechanistic pathways.
Learn phosphorus, sulfur and nitrogen ylides; preparation and their synthetic applications along with their stereochemical aspects.
Study α-C-H functionalization by nitro, sulfoxide, sulfone and phosphonate groups.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-III, Enamines, Ylides and α-C-H functionalization**	Enamines**:** Generation & application in organic synthesis with mechanistic pathways, Stork enamine reaction. Reactivity, comparison between enamines and enolates. Synthetic reactions of enamines including asymmetric reactions of chiral enamines derived from chiral secondary amines.	04	Name Reactions and Reagents in Organic Synthesis, 2nd Edn., Bradford P. Mundy, Michael G. Ellard,	Blackboard and ppt.
	Phosphorus, Sulfur and Nitrogen Ylides: Preparation and their synthetic applications along with their stereochemical aspects.	03	Organic Chemistry, Clayden Greeves	Blackboard and ppt.

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			Warren and Wothers,	
	Wittig reaction, Horner-Wadsworth-Emmons Reaction, Barton-Kellogg olefination.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	α-C-H functionalization: By nitro, sulfoxide, sulfone and phosphonate groups: generation of carbanions by strong bases (LDA/n-butyl lithium) and applications in C-C bond formation.	03	Organic reactions and their mechanisms, 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Bamford-Stevens reaction, Julia olefination and its modification, Seyferth–Gilbert homologation, Steven’s Rearrangement.	02	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand importance of organosilicons, organoboron and organotin compounds in organic synthesis.
Study application of mercury, selenium in organic synthesis.
Study application of silyl enol ethers in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic Organic Chemistry-I **UNIT-IV, Metals / Non-metals in organic synthesis**	Mercury in organic synthesis: Mechanism and regiochemistry of oxymercuration and demercuration of alkenes, mercuration of aromatics, transformation of aryl mercurials to aryl halides. Organomercurials as carbene transfer reagents.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Organoboron compounds: Mechanism and regiochemistry of hydroboration of alkenes and alkynes, asymmetric hydroboration using chiral boron reagents, 9-BBN hydroboration, oxazaborolidine (CBS catalyst) and functional group reduction by diborane.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Organosilicons: Salient features of silicon governing the reactivity of organosilicons, preparation and important bond-forming reactions of alkyl silanes, alkenyl silanes, aryl silanes and allyl silanes. β-silyl cations as intermediates. Iodotrimethylsilane in organic synthesis.	03	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,.	Blackboard and ppt.

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	Silyl enol ethers: Application: As nucleophiles (Michael reaction, Mukaiyama aldol reaction), in ring contraction reactions.	02	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz,	Blackboard and ppt.
	Organotin compounds: Preparation of alkenyl and allyl tin compounds; application in C-C bond formation, in replacement of halogen by H at the same C atom. Selenium in organic synthesis: Preparation of selenols/selenoxide, selenoxide elimination to create unsaturation, selenoxide and seleno acetals as α-C-H activating groups	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: III MONTH: June 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Understand primary and secondary metabolites and the building blocks.
Study Acetate pathway: Biosynthesis of malonylCoA.
Study Shikimic Acid pathway and mevalonate pathway.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER-IV, Medicinal , Biogenesis and green chemistry **UNIT-III, Biogenesis and biosynthesis of natural products**	Primary and secondary metabolites and the building blocks, general pathway of amino acid biosynthesis.	03	Natural product chemistry, A mechanistic, biosynthetic and ecological approach, Kurt B. G. Torssell, Apotekarsocieteten – Swedish pharmaceutical press.	Blackboard and ppt.
	Acetate pathway: Biosynthesis of malonylCoA, saturated fatty acids, prostaglandins from arachidonic acid, aromatic polyketides.	04	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Shikimic Acid pathway: Biosynthesis of shikimic acid, aromatic amino acids, cinnamic acid and its derivatives, lignin and lignans, benzoic acid and its derivatives, flavonoids and isofalvonoids.	04	Natural products Chemistry and applications, Sujata V Bhat, B.A. Nagasampagi and S. Meenakshi, Narosa Publishing House.,.	Blackboard and ppt.
	Mevalonate pathway: Biosynthesis of mevalonic acid, monoterpenes – geranyl cation and its derivatives, sesquiterpenes – farnesyl cation and its derivatives and diterpenes.	04	Natural Product Chemistry Vol.1 and 2, K. Nakanishi J. Goto. S.Ito Majori and S. Nozoo, Academic Press, 1974	Blackboard and ppt.

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: T.Y.B.Sc. SEMESTER: VI MONTH: Dec-22 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study polymers, their classification, stereochemistry and applications.
Understand concept of biodegradable polymers
Learn catalysts and reagents with respect to functional group transformations and selectivity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III, Organic Chemistry **UNIT-IV, Polymer, Catalysts and Reagents**	Terms; monomer, polymer, homopolymer, copolymer, thermo plastics and thermosets. Addition polymers: polyethylene, polypropylene, teflon, polystyrene, PVC, Uses. Condensation polymers: polyesters, polyamides, polyurethanes, polycarbonates, phenol formaldehyde resins.Uses	03	Textbook, Himalaya publication	Blackboard and ppt.
	Stereochemistry of polymers: Tacticity, mechanism of stereochemical control of polymerization using Ziegler Natta catalysts. Natural and synthetic rubbers: Polymerisation of isoprene: 1,2 and 1,4 addition (cis and trans), Styrene butadiene copolymer. Additives to polymers: Plasticisers, stabilizers and fillers.	03	Polymer science – a text book by Ahluwalia and Mishra	Blackboard and ppt.

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	Biodegradable polymers: Classification and uses. polylactic acid structure, properties and use for packaging and medical purposes.,	02	Textbook, Himalaya publication	Blackboard and ppt.
	Catalysts for hydrogenation: a. Raney Nickel b. Pt and PtO_2 (C=C, CN, NO_2, aromatic ring) c. Pd/C : C=C, COCl→CHO (Rosenmund) d. Lindlar catalyst: alkynes,	04	Oranic chemistry by Carey and Sundberg, Part A & B	Blackboard and ppt.
	Reagents**:** a. $LiAlH_4$ (reduction of CO, COOR, CN,NO_2) b. $NaBH_4$ (reduction of CO) c. SeO_2 (Oxidation of CH_2 alpha to CO) d. mCPBA (epoxidation of C=C) e. NBS (allylic and benzylic bromination)	03	Organic chemistry by Morrision and Boyd,7th edition	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: /January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Study principles of physical organic chemistry and structural effects and reactivity.
Study linear free energy relationship (LFER) in determination of organic reaction mechanism.
Learn uses of Hammett equation.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, Theoretical organic chemistry-II **UNIT-I, Physical organic chemistry**	Asymmetric synthesis: Principles of asymmetric synthesis: Introduction, the chiral pool in Nature, methods of asymmetric induction – substrate, reagent and catalyst controlled reactions.	03	Organic Chemistry, J. Clayden, S. Warren, N. Greeves, P. Wothers, 1st Edition, Oxford University Press (2001).	Chalk/ marker pen and board
	Synthesis of L-DOPA [Knowles's Mosanto process]. Asymmetric reactions with mechanism: Aldol and related reactions, Cram's rule, Felkin-Anh model,	04	A guide to mechanism in Organic Chemistry, 6th edition, 2009, Peter Sykes,	Chalk/ marker pen and board
	Sharpless enantioselective epoxidation, hydroxylation, aminohydroxylation, Diels-Alder reaction, reduction of prochiral carbonyl compounds and olefins.	05	Advanced Organic Chemistry: Reaction Mechanisms, R. Bruckner, Academic Press	Chalk/ marker pen and board
	Use of chiral auxiliaries in diastereoselective reductions, asymmetric amplification. Use of chiral BINOLs, BINAPs and chiral oxazolines asymmetric transformations.	03	Organic Chemistry, Part A and B, Fifth	Chalk/ marker pen and board.

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			edition,2007, Francis A. Carey and Richard J. Sundberg,	
	Grunwald-Winstein equation, Dimroth's E_T parameter, Solvatochromism Zscale, Spectroscopic Correlations, Thermodynamic Implications.	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

UNDERSTAND CONCEPTS OF Electro-organic chemistry IN DETAIL.
Study cathodic reduction and anodic oxidation and its application in organic synthesis with mechanistic pathways.
Learn organocatalysts and Pd catalysed cycloaddition reactions
Study applications of selected methods of organic synthesis like crown ethers, cryptands, micelles

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II,	Electrode potential, cell parameters, electrolyte, working electrode, choice of solvents, supporting electrolytes.	02	Advanced Organic Chemistry, Part	Blackboard and ppt.

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Synthetic organic chemistry-II **UNIT-III, Electro-organic chemistry and Selected methods of Organic synthesis**			A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	
	Cathodic reduction: Reduction of alkyl halides, aldehydes, ketones, Nitro compounds, olefins, arenes, electro-dimerization.	02	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Anodic oxidation: Oxidation of alkylbezene, Kolbe reaction, Non-Kolbe oxidation, Shono oxidation..	03	Advanced Organic Chemistry: Reaction Mechanism**,** R. Bruckner, Academic Press (2002).	Blackboard and ppt.
	Selected Methods of Organic synthesis, Applications of the following in organic synthesis: Crown ethers, cryptands, micelles, cyclodextrins, catenanes. Organocatalysts: Proline, Imidazolidinone. Pd catalysed cycloaddition reactions: Stille reaction, Saeguse-Ito oxidation to enones, Negishi coupling	05	Organic reactions and their mechanisms**,** 3rd revisededition, P.S. Kalsi, New Age International Publishers	Blackboard and ppt.
	Use of Sc(OTf), and Yb(OTf) as water tolerant Lewis acid catalyst in aldol condensation, Michael reaction, Diels-Alder reaction, Friedel – Crafts reaction.	03	Chem.Rev. 2002, 102, 2227-2302, Rare Earth Metal Triflates in	Blackboard and ppt.

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			Organic Synthesis, S. Kobayashi.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHAILESH GURAV DEPARTMENT: CHEMISTRY

CLASS: M.Sc. PART-II, ORGANIC CHEMISTRY SEMESTER: IV MONTH: January 2022 ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

To gain knowledge of basic concepts of organometalic chemistry.
Understand importance of palladium in organic synthesis.
Study application of Ce, Sm, Ni, Co, Fe, Rh, and Cr in organic synthesis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II, Synthetic organic chemistry-II **UNIT-IV,**	Introduction to basic concepts: 18 electron rule, bonding in transition metal complexes, C-H activation, oxidative addition, reductive elimination, migratory insertion.	03	Moder Organic Synthesis: An Introduction, G.S. Zweifel and M.H. Nantz, W.H. Freeman and Company, (2007).	Blackboard and ppt.

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Transition and rare earth metals in organic synthesis	Palladium in organic synthesis: π-bonding of Pd with olefins, applications in C-C bond formation, carbonylation, alkene isomerisation, cross-coupling of organometallics and halides.	03	Organic Chemistry, Clayden Greeves Warren and Wothers,	Blackboard and ppt.
	Heck reaction, Suzuki-Miayura coupling, Sonogashira reaction and Wacker oxidation. Heteroatom coupling for bond formation between aryl/vinyl groups and N, S, or P atoms. Olefin metathesis using Grubb’s catalyst.	03	Advanced Organic Chemistry: Reaction Mechanism, R. Bruckner, Academic Press	Blackboard and ppt.
	Application of Ni, Co, Fe, Rh, and Cr carbonyls in organic synthesis.	04	Advanced Organic Chemistry, Part A and Part B: Reaction and Synthesis, Francis A. Carey, Richard J. Sundberg,	Blackboard and ppt.
	Application of samarium iodide including reduction of organic halides, aldehydes and ketones, α-functionalised carbonyl and nitro compounds. Application of Ce(IV) in synthesis of heterocyclic quinoxaline derivatives and its role as a de-protecting agent.	02	Modern Methods of Organic Synthesis, 4th Edition, W. Carruthers and Iain Coldham,	Blackboard and ppt.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE______________________________DEPARTMENT: ________CHEMISTRY______CLASS: _TYBSC_________________

ACADEMIC YEAR: 2022-23 SEMESTER: _____Vth MONTH: June 2021

LEARNING OBJECTIVE/S:

The learners will be able to :

1. To study redox titration like Construction of the titration curves and calculation of E_{system} in aqueous medium , Theory of redox indicators, Criteria for selection of an indicator in details.

2. To study complexometric titrations in details like construction of titration curve, Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes,Selectivity of EDTA as a titrant,Factors enhancing selectivity with examples,Types of EDTA titrations,Metallochromic indicators, theory, examples and applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV UNIT 2 **CLASSICAL METHODS OF ANALYSIS (TITRIMETRY) (3 & 6 UNITS)**	***2.1* Redox Titrations (Numerical and word Problems are expected)** *2.1.1* Introduction 2.1.2 Construction of the titration curves and calculation of E_{system}	08L	Saujanya publicationof analytical chemistry,sheth publication,Himalaya publication textbook,	Online video lecture on Google meet

	in aqueous medium in case of: *(1)* One electron system *(2)* Multielectron system 2.1.3 Theory of redox indicators, Criteria for selection of an indicator Use of diphenyl amine and ferroin as redox indicators			

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	2.2 Complexometric Titrations 2.2.1 Introduction, construction of titration curve 2.2.2 Use of EDTA as titrant and its standardisation, absolute and conditional formation constants of metal EDTA complexes, Selectivity of EDTA as a titrant. Factors enhancing selectivity with examples. Advantages and limitations of EDTA as a titrant. 2.2.3 Types of EDTA titrations.	07L	Same as above	Same as above

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	2.2.4 Metallochromic indicators, theory, examples and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______AJITKUMAR INGLE______________________DEPARTMENT: ____CHEMISTRY__
__CLASS: __TYBSC_________ SEMESTER: _VTH MONTH: June 2021
__ ACADEMIC YEAR: _2022-23
__ LEARNING OBJECTIVE/S:
The learners will be able to :

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1) To study solvent extraction in detail like Factors affecting extraction, Concept of $[pH]_{1/2}$ and its significance, Craig's counter current extraction.

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*2)*To study HPLC instrumentation, working and applications along with detectors. 3)To study HPTLC instrumentation, working and applications in details.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV UNIT IV **METHODS OF SEPARATION – I (6 UNITS)**	***4.1* Solvent Extraction** *4.1.1* Factors affecting extraction: Chelation, Ion pair formation and Solvation *4.1.2* Graph of percent extraction versus pH. Concept of $[pH]_{1/2}$ and its significance (derivation not expected) 4.1.3 Craig's counter current extraction: Principle, apparatus and applications 4.1.4 Solid phase extraction: Principle, process and applications with	06L	Saujanya publication,sheth publication,Himalaya publication textbook of analytical chemistry,	Online video lecture on Google meet

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	special reference to water and industrial effluent analysis. 4.1.5 Comparison of solid phase extraction and solvent extraction.			

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	4.2 High Performance Liquid chromatography (HPLC) 4.2.1 Introduction and Principle Instrumentation- components with their significance: Solvent Reservoir, Degassing system, Pumps-(reciprocating pumps, screw driven- syringe type pumps, pneumatic pumps, advantages and disadvantages of each pump), Precolumn, Sample injection system, HPLC Columns, Detectors(UV – Visible detector, Refractive index detector) 4.2.2 Qualitative and Quantitative Applications of HPLC	06L	SAME AS ABOVE	SAME AS ABOVE
	4.3 High Performance Thin Layer Chromatography (HPTLC) 4.3.1 Introduction and Principle	03L	SAME AS ABOVE	SAME AS ABOVE

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	Stationary phase, Sample application and mobile phase 4.3.2 Detectors *a)* Scanning densitometer- Components. Types of densitometer- Single beam and Double beam *b)* Fluorometric Detector *4.3.3* Advantages, disadvantages and applications *4.3.4* Comparison of TLC and HPTLC			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: _July________________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of QSAR factor and how to relatedto drug design.Also understand the synthesis of some drug.they understand the concept of drug.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II: Drug Design, Develepment And Synthesis	2.1: QSAR Parameter Steric Factor , Talf Equation	5L	1.Medicinal Chemistry,Sriram &Yogeeswari,2nd edition 2.A Introduction to drug design,Pandeya and Dimmock.	White Board and Markar
	2.2: Mordern method of drug design & synthesis	3L		
	2.3: Concept of prodrug & soft drug	3L		
	2.4: Synthesis and application of the drug	4L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. JAYASHRI GOPAL NAPHADE, DEPARTMENT: _CHEMISTRY, CLASS: _M.SC II (ORGANIC CHEMISTRY), SEMESTER: III, MONTH: __July_______________, ACADEMIC YEAR: 2022-2023.

LEARNING OBJECTIVE/S:
The learners will be able to: understand the Pericyclic reactions and it's different types.Also understand the Selectivity of cycloaddition reaction and sigmatropic reaction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II: Pericyclic Reaction	2.1: Cycloaddition Reaction & Other Cycloaddition Reaction	7L	1.Pericyclic Reaction, Ian Fleming 2.Pericyclic Reaction- A mechanistic Approach, S. M. Mukharji.	White Board and Markar
	2.2: Cycloaddition Reaction	3L		
	2.3: Sigmatropic Rearrangement	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.JAYASHRI GOPAL NAPHADE___DEPARTMENT: __CHEMISTRY_ CLASS: _M.Sc II (ORGANIC CHEMISTRY) SEMESTER: ___IV____________ MONTH: _____January_____________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the how the protection of group is necessary in organic synthesis also understand the concept of Umpolung.they also understand the concept of retrosynthetic an d how to plan the retrosynthetic apporoach.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERANCES	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT-I Desiging Organic Synthesis-i	1.1:Protectin group in organic Synthesis	3L	1.Protective groups in Organic synthesis,Greene and Wuts 2.Principle of organic synthesis, R.O.C. Norman & Coxon. 3.Organic Synthesis:The Disconnection Approach,Stuart Warren.	White Board & Marker
	1.2: Concept of Umpolung	3L		
	1.3:Introduction to Retrosynthetic analysis & synthetic planning	9L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE ___DEPARTMENT: __CHEMISTRY_CLASS: _M.Sc.II(ORGANIC CHEMISTRY) SEMESTER: _IV_ MONTH: __January_______________ ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to: understand the different sources use in research .some information about journals.They understand different resources used during research.like information technology and library.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT-I RESEARCH METHODOLOGY	1.1: Print: Primary, Secondary,Tertiary sources	5L	Research methodology,C.R.Kothari	Projector
	1.2::Journals	5L		
	1.3:Information Technology & Library Resources	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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NAME OF THE STAFF: __Dr. JAYASHRI GOPAL NAPHADE __DEPARTMENT: __CHEMISTRY___

CLASS: ___S.Y.B.Sc (PC-CZ)__ SEMESTER: __III___________ MONTH: ___July______________

ACADEMIC YEAR: ___2022-2023__________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature ,structure ,preparation and reactions aof aldehyde and ketones.Also understand mechanism of some name reaction.______

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT –III Carbonyl componnd	3.1: Nomencluture,structure,reactivity & method of Preparation of aldehyde & Ketone	6L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION)	Chalk -Board
	3.2: General mechanism of nuclophilic addition	1L		
	3.3: Reactions of aldehyde and ketones	3L		
	3.4: Mechanism of some name Reactions	2L		
	3.5: Keto-enol tautomerisation 3.6: Active Methylene compound	1L 2L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: __CHEMISTRY_______CLASS: __ S.Y.B.Sc (PC-CZ)__
________ SEMESTER: ______IV_________ MONTH: __December_______________ ACADEMIC YEAR: _____2022-2023________________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the nomenclature and preparation and reaction of Amines and Diazonium salt.They also understand what is heterocyclic compound it's nomenclature,preparation and reaction of furan.Pyrrole,Thiophene and Pyridine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/
PAPER-II UNIT –III Nitrogen Containing compound & Heterocyclic compound	3.1:Amines: Nomencluture , preparation and Reactions	4L	S.Y.B.Sc ORGANIC CHEMISTRY TEXT BOOK (HIMALAYA PUBLICATION	Chalk - Board
	3.2: Diazonium Salt: Preparation,reactions & synthetic application	3L		
	3.3:Hetrocyclic compound :3.3.1:classification,nomenclature,structure	8L		
	3.3.2:synthesis of furan,pyrrole,Thiophene,pyridine 3.3.3:Reactivityof furan,pyrrole,Thiophene,pyridine			
	3.3.4:Reactions of furan,pyrrole,Thiophene 3.3.5: Pyridine:Basicity,Reaction			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____Dr.JAYASHRI GOPAL NAPHADE ---DEPARTMENT: ___CHEMISTRY_________________________

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CLASS: ____T.Y.B.Sc___ SEMESTER: ____V___ MONTH: __July_______________ ACADEMIC YEAR: _____2022-2023_____

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the concept of Dyestuff ,it's type ,nomenclature and application.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-III CHEMISTRY OF DYESTUFF	3.1:Introduction to the Dyestuff Induestries	5L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	3.2: Substrates for Dyes : Types of fibres	3L		
	3.3: classification of Dyes based on Applications and Dyeing methods	7L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15_____

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: __Dr.JAYASHRI GOPAL NAPHADE____DEPARTMENT: _CHEMISTRY_ CLASS: __T.Y.B.Sc_ SEMESTER:

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_________VI______ MONTH: _December________________ ACADEMIC YEAR: ______2022-2023_______________

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the classification of dyes and synthesis of some dyes.Also understand the hards of synthetic dyes on health and environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DRUG AND DYES UNIT-VII CHEMISTRY OF DYE STUFF	7.1:Classification of dyes based on chemical constitution & synthesis of selected dyes.	12 L	T.Y.B.Sc DRUG &DYES TEXT BOOK (HIMALAYA PUBLICATION)	Chalk and Board
	7.2: Health and Environmental Hazards of synthetic dyes & their remediation process.	3 L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr Amol Samant DEPARTMENT: Biotechnology CLASS: F.Y.B.Sc. SEMESTER: I

MONTH: Jun-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. Experiments which proved DNA as a transforming element and RNA as a genetic material.

2. DNA repair mechanisms system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT106 **MOLECULAR BIOLOGY I** **UNIT I** **Chromosome structure, composition and packing**	The Composition and structure of DNA and RNA: Nucleotide and Nucleoside, Structure of nucleotides. Structure of DNA. DNA double helix – Watson and Crick's Model. Structure of RNA. Types of RNA. Organization of DNA in chromosome: Viral and Prokaryotic Chromosomes. Eukaryotic Chromosomes. Histone and Non-histone proteins. Nucleosome Structure. Packaging of DNA into chromosomes. Euchromatin and Heterochromatin. Centromeres and Telomeres Chromosome Banding Techniques. Karyotype and Idiogram	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Demo video

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USBT106 **MOLECULAR BIOLOGY I** **UNIT III** **Mutation and repair**	Definition and concept of Mutations: Classification of mutations Types of Point Mutations, Types of Spontaneous and induced mutations Mutagenesis and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens) DNA repair: Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair.	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Animation video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______30___

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eaching plan (UNIT PLAN)

NAME OF THE STAFF: _______Kirti Pankaj Mhatre____________________________DEPARTMENT: _____Chemistry______________________CLASS: ____TyBsc._______________ SEMESTER: _VTH MONTH: June-July- Aug

ACADEMIC YEAR: _____2022-2023________________

LEARNING OBJECTIVE/S:

The learners will be able to :

1.To study quality in analytical chemistry like Concepts of Quality, Quality Control and Quality Assurance.

2.To study the chemical calculations like inter conversion of various concentration units and Percent composition of elements in chemical compounds.

3..To study how to do the sampling of solids and liquid and gases alogwith the Collection, preservation and dissolution of the sample..

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Analytical chemistry *Paper IV* *UNIT I :INTRODUCTION TO QUALITYCONCEPTS,CHEMICAL CALCULATIONS AND SAMPLING*	*1.1 Quality in Analytical Chemistry* *1.1.1 Concepts of Quality, Quality Control and Quality Assurance* *1.1.2 Importance of Quality concepts in Industry* *1.1.3 Chemical Standards and Certified*	*05L*	*Saujanya publication,sheath publication,Himalaya publication textbook of analytical chemistry,*	*chalk and board,powerpoint presentation*

	Reference Materials; Importance *in chemical analysis* *Quality of material: Various grades of laboratory reagents*			

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	1.2 Chemical Calculations (Numericals and word problems are expected) *1.2.1.Inter conversion of various concentration units.* *(Conversion of concentration from one unit to another unit with* *examples)* *1.2.2 Percent composition of elements in chemical compounds*	*04*	*Same as above*	*chalk and board,powerpoint presentation*
	1.3 Sampling *1.3.1 Purpose, significance and difficulties encountered in sampling* *1.3.2 Sampling of solids: Sample size - bulk ratio, size to weight ratio,* *multistage and sequential sampling, size reduction methods,*	*06L*	*Same as above*	*chalk and board,powerpoint presentation*

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	sampling of compact solids, equipments and methods of sampling *of compact solids, sampling of particulate solids, methods and equipments used for sampling of particulate solids.* *1.3.3 Sampling of liquids: Homogeneous and heterogeneous, Static and* *flowing liquids.* *1.3.4 Sampling of gases: Ambient and stack sampling: Apparatus and methods for sampling of gases.* *1.3.5 Collection, preservation and dissolution of the sample.*			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_L____

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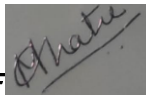
SIGNATURE OF THE STAFF 

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Kirti Pankaj Mhatre______________________DEPARTMENT: CHEMISTRY_________

CLASS: _Tybsc__________- SEMESTER: _Vth MONTH: Aug-Sept-Oct

ACADEMIC YEAR: _-2022-2023__________________

LEARNING OBJECTIVE/S:

The learners will be able to :

1. To study AAS like instrumentation, working and applications in detail.

2.To study AES like instrumentation, working and applications in detail.

3.To study Molecular Fluorescence and Phosphorescence Spectroscopy like instrumentation, working and applications in details.

4.To study turbidimetry and nephelometry like instrumentation, working and applications in details.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ANALYTICAL CHEMISTRY PAPER-IV	**3.1Atomic Spectroscopy: Flame Emission spectroscopy(FES) and** **Atomic Absorption Spectroscopy(AAS)**		SAUJNYA PRAKASHAN TEXTBOOK,	chalk and board,powerpoint presentation

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UNIT-3 *OPTICAL* *METHODS(6UNITS)*	*3.1.1 Introduction, Energy level diagrams, Atomic spectra, Absorption* *and Emission Spectra* *3.1.2 Flame Photometry - Principle, Instrumentation (Flame atomizers,*	*07L*	*SHETH PUBLICATION TEXTBOOK,* *HIMALAYA PUBLICATION TEXTBOOK*	
	types of Burners, Wavelength selectors, Detectors) *3.1.3 Atomic Absorption Spectroscopy – Principle, Instrumentation* *(Source, Chopper, Flame and Electrothermal Atomiser)* *3.1.4 Quantification methods of FES and AAS - Calibration curve* *method, Standard addition method and Internal standard method* *3.1.5 Comparison between FES and AAS* *3.1.6 Applications, Advantages and Limitations*			

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	3.2 Molecular Fluorescence and Phosphorescence Spectroscopy *3.2.1 Introduction and Principle* *3.2.2 Relationship of Fluorescence intensity with concentration* *3.2.3 Factors affecting Fluorescence and Phosphorescence* *3.2.4 Instrumentation and applications*	*04L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

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	3.2.5 Comparison of Fluorimetry and Phosphorimetry *3.2.6 Comparison with Absorption methods*			
	3.3Turbidimetry and Nephelometry *3.3.1 Introduction and Principle* *3.3.2 Factors affecting scattering of Radiation:* *Concentration, particle size, wavelength, refractive index* *3.3.3 Instrumentation and applications*	*04L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE__________________________DEPARTMENT: ________CHEMISTRY___________________CLASS: _FYBSC_________________

SEMESTER: ____I[ST]

MONTH: _AUG-SEPT-Oct-Nov

ACADEMIC YEAR: _2022-2023________________

LEARNING OBJECTIVE/S:

The learners will be able to : _1.To study the thermodynamics concepts like systems,zeroth law,first law calculations of heat (q), work (w), internal energy (U), and enthalpy (H) (Numericals)Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules,enthalpy of combustion and its applications, calculation of bond energy, bond dissociation energy and resonance energy from thermochemical data, Kirchhoff's equation(Numericals) in detail.

2.To study chemical calculations with the help of numericals of Normality, molality, molarity, formality, mole fractions, weight ratio, volume ratio, weight to volume ratio, ppm, ppb, millimoles.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper 1 Unit 1 Chemical	***Thermodynamic terms:*** *System, surrounding, boundaries, open, closed and isolated system, intensive and extensive properties, state functions and path functions, zeroth law*	*10L*	*HIMALAYA PUBLICATIONS TEXTBOOK,* *SHETH*	*chalk and board,powerpoint presentation*

Thermodynamics, ***1.2 Chemical Calculations***	*of thermodynamics* *First law of thermodynamics: concept of heat (q), work (w), internal energy (U), statement* *of first law, enthalpy, relation between heat capacities, sign conventions, calculations of* *heat (q), work (w), internal energy (U), and enthalpy (H) (Numericals expected)* *Thermochemistry: Heats of reactions, standard states, enthalpy of formation of molecules,* *enthalpy of combustion and its applications, calculation of bond energy, bond dissociation* *energy and resonance energy from thermochemical data,* *Kirchhoff's equation*		*PUBLICATIONS TEXTBOOK*	

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	(Numericals expected)			

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	1.2 Chemical Calculations *Expressing concentration of solutions: Normality, molality, molarity, formality, mole* *fractions, weight ratio, volume ratio, weight to volume ratio, ppm, ppb, millimoles,* *milliequivalents (Numericals expected)*	*05L*	*SAME AS ABOVE*	*chalk and board,powerpoint presentation*

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Kirti Pankaj Mhatre ________________________DEPARTMENT: ______CHEMISTRY____________________CLASS: ____TYBSC______________ SEMESTER: _VITH MONTH:. Dec-Jan

ACADEMIC YEAR: ___2022-2023______________

LEARNING OBJECTIVE/S:

The learners will be able to :

1.To study the polarography concepts like polarography H shaped polarographic cell, DME (construction, working,advantages and limitations), DC polarogram: Terms involved - Residual current, Diffusion current, Limiting current, Half-Wave Potential Role and selection of supporting electrolyte, Interference of oxygen, Half wave potential $E_{1/2}$,Factors affecting $E_{1/2}$ Ilkovic equations: various terms involved in it (No derivation)along with numericals.

2.To study Principle, Rotating Platinum Electrode(Construction, advantages and limitations)Titration curves with example, Advantages and limitations of amperometric titrations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV *UNIT-1* ***ELECTRO ANALYTICAL TECHNIQUES(3 & 6 UNITS)***	***1.1 Polarography (Numerical and word problems are expected)*** *1.1.1 Difference between potentiometry and voltammetry,* *Polarizable and* *non-polarizable electrodes* *1.1.2 Basic principle of polarography*	*11L*	*SAUJNYA PRAKASHAN TEXTBOOK,* *SHETH PUBLICATION TEXTBOOK,* *HIMALAYA*	*chalk and board,powerpoint presentation*

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	H shaped polarographic cell, DME (construction, *working, advantages and limitations)* *1.1.3 DC polarogram: Terms involved - Residual current, Diffusion* *current, Limiting current, Half-Wave Potential* *Role and selection of supporting electrolyte, Interference of oxygen* *and its removal, polarographic Maxima and Maxima Suppressors* *Qualitative aspects of Polarography: Half wave potential $E_{1/2}$,* *Factors affecting $E_{1/2}$* *Quantitative aspects of polarography: Ilkovic equations: various* *terms involved in it (No derivation)* *1.1.4 Quantification* *1) Wave height – Concentration plots*		*PUBLICATION TEXTBOOK*	

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	(working plots/calibration) *2) Internal standard (pilot ion) method*			

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	3) Standard addition method 1.1.5 Applications advantages and limitations			
	1.2Amperometric Titrations 1.1.1Principle, Rotating Platinum Electrode(Construction, advantages and limitations) 1.2.2 Titration curves with example 1.2.3 Advantages and limitations	04L	SAME AS ABOVE	chalk and board,powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15L_____

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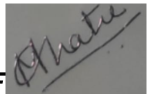
SIGNATURE OF THE STAFF 

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE____________________________DEPARTMENT: _____CHEMISTRY______________________CLASS: ____TYBSC_______________ *SEMESTER: ____VITH* *MONTH: Jan-Feb*

ACADEMIC YEAR: _2022-2023___________________
LEARNING OBJECTIVE/S:
The learners will be able to :

1._To study the gas chromatography Principle, Theory and terms involved Block diagram and components,types of columns,stationary phases in GSC and GLC, Detectors: TCD, FID, ECD, Qualitative, Quantitative analysis and applications Comparison between GSC and GLC along with calculations.

2.To study ion exchange chromatography Principle, Types of Ion Exchangers , Ideal properties of resin, Ion Exchange equilibria and mechanism, selectivity coefficient and separation factor,Factors affecting separation of ion,Ion exchange capacity and its determination for cation and anion,Exchangers,Applications of Ion Exchange Chromatography in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER IV *UNIT-2* ***METHODS OF SEPARATION - II (3 & 6***	***2.1 Gas Chromatography** (**Numerical and word problems are expected**)* *2.1.1 Introduction, Principle, Theory and terms involved* *2.1.2 Instrumentation: Block diagram and components, types of columns,* *stationary phases in GSC and GLC, Detectors: TCD, FID,*	*09L*	*SAUJNYA PRAKASHAN TEXTBOOK,* *SHETH PUBLICATION TEXTBOOK,* *HIMALAYA*	*Chalk and Board, Powerpoint Presentation*
UNITS)	*ECD* *2.1.3 Qualitative, Quantitative analysis and applications* *2.1.4 Comparison between GSC and GLC*		*PUBLICATION TEXTBOOK*	

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	2.2 Ion Exchange Chromatography *2.2.1 Introduction, Principle.* *2.2.2 Types of Ion Exchangers , Ideal properties of resin* *2.2.3 Ion Exchange equilibria and mechanism, selectivity coefficient and separation factor,Factors affecting separation of ions* *2.2.4* *Ion exchange capacity and its determination for cation and anion* *exchangers.* *2.2.5 Applications of Ion Exchange Chromatography with reference to Preparation of demineralised water, Separation of amino acids*	*06L*	*SAME AS ABOVE*	*Chalk and board*

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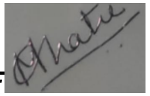
SIGNATURE OF THE STAFF 

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15L_______

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Vishnu Waman Thakur Charitable Trust Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _KIRTI PANKAJ MHATRE______________________DEPARTMENT: _CHEMISTRY__________________________

CLASS: ______FYBSC_____________ *SEMESTER: _IIND* *MONTH: ___Feb- Mar-Apr______________*

ACADEMIC YEAR: _2022-2023____________________
LEARNING OBJECTIVE/S:
The learners will be able to : 1. To study the gaseous state related laws and (Numericals) ,Deviation from ideal gas laws, reasons for deviation from ideal gas laws, Van der Waals equation of state, Joule-Thomson effect: qualitative discussion and experimentation,inversion temperature. (Numericals expected) in detail.

2.To study chemical equilibria and thermodynamics concepts like Reversible and irreversible reactions, law of mass action, dynamic equilibria, equilibrium

constant, (K_c and K_p), relationship between K_c and K_p, Le Chatelier's principle, factors affecting chemical equilibrium (Numericals)Statement of second law of thermodynamics, concepts of entropy and free energy,spontaneity and physical significance of free energy, thermodynamic derivation of. (Numericals).

_PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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Paper 1 ***Unit 1*** ***1.1 Gaseous State:*** ***1.2 Chemical***	***1.1 Gaseous State:*** *Ideal gas laws, kinetic theory of gases, Maxwell-Boltzmann's distribution of velocities* *(qualitative discussion), ideal gases, real gases, compressibility factor, Boyle's*	*08L*	*HIMALAYA PUBLICATIONS TEXTBOOK,* *SHETH PUBLICATIONS TEXTBOOK*	*Chalk and board,Powerpoint presentation*
Equilibria and Thermodynamic Parameters:	*temperature (Numericals expected)* *Deviation from ideal gas laws, reasons for deviation from ideal gas laws, Van der Waals* *equation of state, Joule-Thomson effect: qualitative discussion and experimentation,* *inversion temperature. (Numericals expected)*			

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	1.2 Chemical Equilibria and Thermodynamic Parameters: *Reversible and irreversible reactions, law of mass action, dynamic equilibria, equilibrium* *constant, (K_c and K_p), relationship between K_c and K_p, Le Chatelier's principle, factors* *affecting chemical equilibrium (Numericals expected)* *Statement of second law of thermodynamics, concepts of entropy and free energy,spontaneity and physical significance of free energy, thermodynamic derivation of. (Numericals expected)*	*07L*	*SAME AS ABOVE*	*Chalk and board, Powerpoint Presentation*

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15L_____

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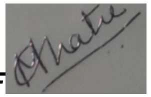
SIGNATURE OF THE STAFF 

Signature of H.O.D

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI **DEPARTMENT**: ENVIRONMENTAL SCIENCE

CLASS: FY. BACA **SEMESTER:** II

MONTH: DECEMBER 2022-FEBRUARY 23 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

The Objective of the course is to familiarize the students with the need and ways to conserve the environment.

The learners will be able to:

After the completion of this course the students shall be able to

- list and define various components of environment,
- need of its conservation and role of human beings in its conservation as per the learning material provided by Ministry of Human Resources, Govt. of India.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	THE MULTIDISCIPLINARY NATURE OF ENVIRONMENTAL STUDIES Definition, scope and importance Need for public awareness Natural resources Renewable and non-renewable resources Natural resources & associated problem. a. Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forests and tribal people. b. Water resources: Use and over-utilization of surface and ground water, floods, drought, conflicts over water, dams benefits and	**15.HRS**	ENVIRONMENTAL STUDIES FOR UNDERGRADUATE COURSE BY ERACH BHARUCHA	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	problems. c. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies. d. Food resources: World food problems overgrazing, effects of modern agriculture, fertilizer-pesticide problems, water logging, salinity, case studies. e. Energy resources: Growing energy needs, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies. f. Land resources: Land as a resource, land degradation, man induced landslides, soil erosion and desertification. • Role of an individual in conservation of natural resources. Equitable use of resources for sustainable lifestyles. Ecosystems • Concepts of an ecosystem. • Structure and function of an ecosystem. • Producers, consumers and decomposers. • Energy flow in the ecosystem. • Ecological succession. • Food chains, food webs and ecological pyramids. • Introduction, types, characteristic features, structure and function of th following ecosystem: a. Forest ecosystem b. Grassland ecosystem c. Desert ecosystem d. Aquatic ecosystem (ponds, stream lakes, rivers, oceans, estuaries)			
UNIT 2	BIODIVERSITY AND ITS CONSERVATION, ENVIRONMENTAL POLLUTION & SOCIAL ISSUES Biodiversity and Its Conservation • Introduction-Definition: genetic species and ecosystem diversity • Bio-geographical classification of India • Value of biodiversity : Consumptive use, productive use, social, ethical, aesthetic and option values	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	• Bio-diversity at global, national, local levels • India as a mega diversity nation • Hot spots of bio-diversity • Threats to biodiversity: Habitat loss, poaching of wild life, manwildlife conflicts • Endangered and endemic species of India • Conservation of biodiversity: In- situ and Ex-situ conservation of biodiversity Environmental Pollution Definition – • Causes, effects and control measures of: a. Air pollution b. Water pollution c. Soil pollution d. Marine pollution e. Noise pollution f. Thermal pollution g. Nuclear Hazards • Solid waste management: Causes, effect and control measures of urban and industrial wastes • Role of an individual in prevention of pollution • Pollution case studies • Disaster management: floods, earthquake, cyclone and land slides Social issues and environment 15 hrs 15 hrs • From unsustainable to sustainable development • Urban problems related to energy • Water conservation, rain water harvesting, and watershed management • Re-settlement and rehabilitation of people: Its problems and concerns. Case studies. • Environmental ethics: issues and possible solution • Climate change, global warming, acid rain, ozone layer depletion, nuclear accidents and holocaust. Case studies. • Wasteland reclamation • Consumerism and waste products • Environment protection act • Air(Prevention and control of pollution) act			

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DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

UNIT 3	• Water (Prevention and control of pollution) act • Wildlife protection act • Forest conservation act • Issues involved in enforcement of environmental legislation • Public awareness **HUMAN POPULATION & THE ENVIRONMENT AND UNDERSTANDING EXISTENCE AND CO-EXISTENCE** Human Population & The Environment • Population growth, variation among nations • Population Explosion- family welfare program • Environment and human health • Human rights • Value education • HIV/AIDS • Women and child welfare • Role of information technology in environment and human health • Case studies Understanding Existence and Co-existence • Interrelation and Cyclicity between Material order, Bio-order, Animal order and Human order •Understanding the human conduct : Relationship in Family, Justice in Relationship, Relationship of human with nature (environment),human Behaviour, Human Values, Nature & Morality •Understanding the Human society: Dimensions of Human Endeavour and Objectives, Interrelationship in Society, Mutual Fulfillment and Cyclist in nature.	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• **UNIT 1** ALCOHOLIC BEVERAGES	• ALCOHOLIC BEVERAGES a. Definition, history of Alcoholic Beverages & classification. b. Benefits and harmful effects of alcohol.	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	WINES • **1.1 Definition & history of wines.** • **1.2 Types of Wines:** • **Still (red, white & rose), sparkling/Champagne, Fortified (sherry, port, Madeira, Marsala & Malaga), Aromatized wines (Vermouth).** • **1.3 Methods of production, Still (red, white, rose).** • **a) Viticulture** • **(Wine calendar, terroir, vine species, grape varieties & diseases).** • **b) Vinification**	13	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Google slide

	• (Manufacturing process, elements of wine & faults in wines). • c) Champagne & Sparkling Wines. • (History, districts, grape varieties, Methode Champenoise, cuvee close, transfer method, charmat & impregnation, Names & bottle sizes). • d) Fortified Wines (Production & types). • 1) Sherry (Solera system) • 2) Port • 3) Madeira (estufagen) • 4) Marsala • 5) Malaga • e) Aromatized wines (Definition & types)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II	2.1 Wine producing countries of the world (Regions, Wine laws, labels & shippers). a) Old world wine producing countries (France, Italy, Germany, Spain & Portugal). b) New World wine producing countries (Australia, New Zealand, South Africa, U.S.A. & India).	10	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Google slide
	2.2 Wine tasting, Storage & Service	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	2.3 Food and wine Harmony.	03		Google classroom White board Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.A.C.A.** SEMESTER: III

MONTH: **JUNE-2022 to OCTOBER-2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNITIII BEER & OTHER FERMENTED BEVERAGES	a) Definition, History & Brewing process. (Components of beer, top fermentation, bottom fermentation) b) Types of Beer, Storage & Service (Lager, Pilsner, Draught, Ale, Stout, Porter, Ice, Lambic & Smoked) c) Other fermented beverages (Cider, Perry, Mead, Sake & Toddy).	03	• Shatbi Basu- The can't go wrong Cocktail book • Brian Glover- The world encyclopedia of Beer	Google classroom White board Google slide
	3.2 SPIRITS a) Introduction and definition b) Pot and patent still method of production. 3.3 History, Production, types & Brand names (national & International) a) Whisky (Scotch, American, Canadian, Irish & Japanese) b) Rum (White, Gold, Dark & Flavoured) c) Brandy (Cognac, Armagnac & Fruit) d) Gin	03	•Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide

	e) Vodka, flavoured vodka f) Tequila & Mezcal			
	3.4 Alcoholic Strength :Proof, GL, Sykes, U.S., British (OIML) 3.5 Other Spirits (Aquavit, schnapps, Pastis, ouzo, arrack) 3.6 LIQUEURS Introduction, definition, classification & production of liqueurs a) Different types of liqueurs: Base, Flavours, Country of origin. b) Brand names of liqueurs (Generic & Proprietary)	04	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	3.7 APERITIFS & BITTERS a) Definition b) Brand names	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide
	3.8 GLOSSARY OF TERMS RELATED TO Alcoholic beverages, Menu terminologies.	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Student should be able to Identify the role of the Food and Beverage Service department and explain its organization structure and importance.
- Explain how "moments of truth" affect guests, staff members, and managers, and describe the value of guests and staff members to a food service operation.
- Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** INTRODUCTION TO HOTEL AND CATERING INDUSTRY 1.1 Role of catering establishment in travel / tourism industry 1.2 Types of F& B operation (Classification). Commercial (residential / Non Residential) • Welfare • Institutional • Transport (Roads, Railways, Airlines, Marine) 1.3 Structure of hospitality industry and career opportunities	4 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. DEPARTMENTAL ORGANISATION AND STAFFING 2.1 Organization of F & B Department of a Hotel (English & French) 2.2 Etiquette & Attributes of an F & B Personnel. 2.3 Duties and responsibilities of F & B Staff. a) F & B Manager.	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet

	b) Banquet manager. c) Outlet Manager (All day dining/ Bar/ In Room Dining/Specialty Restaurant, etc.) d) Senior captain/ Captain/ Supervisor. e) Steward. f) Sommelier. g) Hostess. h) Cashier. 2.4 Departmental Relationship of F& B with other Departments.			
	Revision Lectures	3 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Identify the operational and Auxiliary areas as well as equipment's used in the Food and Beverage department.
- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1. OPERATIONAL & AUXILLARY AREAS OF FOOD AND BEVERAGE DEPARTMENT: IMPORTANCE & LAYOUTS a) Coffee shop b) Snack bar/ counter service c) Kiosks d) Specialty restaurant/ theme restaurant e) Banquet operations/ outdoor catering f) In-Room Dining g) Dispense Bar / Discotheque/ night club/ pub h) Pantry/Still room i) Kitchen stewarding j) Silver room k) Linen room l) Vending machine	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. FOOD AND BEVERAGE SERVICE EQUIPMENT 2.1 Classification of equipment. (Familiarization of equipment). 2.2 Criteria for selection and requirements.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	• Tableware/ silverware (cutlery/ hollowware/flatware) • Glassware • Crockery • Bar equipment(For all of the above Brands, Measures & Quality suppliers) • Special equipment with their uses. • Furniture (Tables/Chairs/Trolleys/Dumb Waiter) • Linen. • Light and décor • Care and maintenance of equipment. • Napkin folds. 2.3 Table d' hôte, A'la carte Mis-en –place, Mis -en –Scene			
	Revision Lectures	5 Lectures		1. Google Classroom 2. Google Slides 3. Google Meet 4. Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FUNDAMENTALS FOOD & BEVERGE SERVICE

The learners will be able to:

- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1. DINING SERVICES METHOD AND PROCEDURES 1.1 Different methods of services a. Table service • Silver service/ English service • American/ Plated • Family • Russian • French/ butler • Guéridon b. Bar Counter c. Assisted Service • Carvery • Buffets d. Self Service •Cafeteria: a).Counter b).free-flow c).Echelon d).Supermarket e. Single point service •Take-away	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	•Drive through •Fast food •Vending •Kiosk •Food court •Bar f. Specialized (in-situ) •Tray •Trolley •Home delivery •Lounge •Room •Drive in 1.2 Special Service • Formal Service • Wave service • Carlton club service 1.3a. Rules to be observed while laying the table. b. Rules to be observed while waiting at the table. c. Dos & don’ts in a restaurant			
	Revision Lectures	5 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI SUB: FOOD COST CONTROL

CLASS: SY. BACA **SEMESTER:** III

MONTH: JULY 2022- OCTOBER 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:
To provide the basic understanding to the students in management controls- purchase, stores and production , costing, cost dynamics & cost control

The learners will be able to:
After completion of this units students will be able to understand cost analysis overhead cost elements and control of cost
understand controls- purchase, stores and production
understand costing, cost dynamics & cost control

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	Management Management objectives Importance of financial control in catering establishments Elements of Costs Cost analysis food cost labour cost Overheard cost elements Control of labour cost and over head cost	**15.HRS**	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd.	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

UNIT 2	Purchase Control Objectives of purchasing Purchasing procedures Methods of purchasing Essentials of a good supplier ABC analysis Yield testing, yield calculations & yield percentages Centralized & decentralized purchasing Formats of: Purchase requisition & purchase order Stores Control Objectives of store keeping Methods of store keeping classification of material , Minimum stock, maximum stock & reorder level Method of receiving : Delivery Challans, cross checking with P.O & its documentation Computerized records Methods of stock valuation Continuous / perpetual stock taking Annual stock taking Causes of difference in book stock & physical stock Avoidable & unavoidable causes of food spoilage Production Control Stores issues procedure opening balances of raw material / Left over & material in process Production planning Pricing menu card Daily material consumption record	**15.HRS**	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd.	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

UNIT 3	Daily food cost / gross profit with percentage & control. Standard portion size Standard beverage cost Food cost percentage Seat turnover ratio Average check Sales per menu Gross profit method of pricing Importance of pricing Methods of pricing concept Calculating kitchen profit	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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HOTEL & TOURISM MANAGEMENT STUDIES

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMRATA BHOLANATH KHAKANDI **SUB:**: FOOD LEGISLATION

CLASS: TY. BACA **SEMESTER:** V

MONTH: DEC 2022- MARCH 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

On successful completion of this course students will be able to assimilate various food laws. Students will be able to understand the various licenses required for starting a commercial property

The learners will be able to:

After completion of this unit student will be able to learn laws and different Acts regarding food and beverage establishment.
After completion of this unit student will be able to state what is Safe food handling, Food adulteration, Food additives and Penalty and compensation for serving unsafe food.
After completion of this unit student will be able to state different liquor laws, tobaco laws, labor laws and difference between Contract and agreement.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1 General Laws regarding food 1.1 Meaning and definition of food	**15.HRS**	FSSAI website	1. POWER POINT PRESENTATION

	1.2 1.2 Prevention of food adulteration act 1.3 What is food adulteration 1.3 What is an adulterant and adulterated food 1.5 Food poisoning 1.5.1 Food additives 1.5.2food preservatives 1.5.3 Penalty / compensation for serving unsafe food 1.6 Food quality and standard 1.7 Prohibition and restriction			2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS
UNIT 2	2 Role of various authorities 2.1 Food safety & standard acts 2.2 Licensing (Basic license required for food service establishment) 2.3 Role of management 2.4 Role of food safety officer & auditor 2.5 Role of food analysts 2.6 Role of adjudicating officer 2.7 Ethical responsibilities of service establishment	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	2.8 Garbage disposal			
UNIT 3	3 Licenses and business contracts 3.1 Liquor license and types 3.2 Procedure to acquire liquor license 3.3 Off premises or offsite premises 3.4 Procedure to acquire liquor license for guests 3.5 Liquor legislation in India 3.5.1 Prohibition 3.5.2 Dry days 3.5.3 Legal age for drinking	**15.HRS**		1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

	3.6 Sale of cigarette, cigar and tobacco 3.7 Business contracts 3.7.1 Introduction 3.7.2 Indian contract act 1872 3.7.3 Proposal agreement and contract 3.7.4 Essential elements of a contract 3.7.5 Void / voidable contracts 3.7.6 Types of contract 3.7.7 Hospitality contracts 3.7.8 Labour Laws that provide for rights of catering employees at work place			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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SIGNATURE OF THE STAFF	**SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NAMRATA BHOLANATH KHAKANDI **SUB:** GASTRONOMY

CLASS: SY. BACA **SEMESTER:** IV

MONTH: DEC 2022- MARCH 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE:

The students will be able to understand the food gastronomy

The learners will be able to:
After completion of this unit student will be able to state the meaning, perception and factors of Gastronomy.
After completion of this unit student will be able to state history of European Gastronomy and the new contributors to develop the modern Gastronomy.
After completion of this unit student will be able to state the history and growth of Indian Gastronomy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	What is Gastronomy? The perception of Gastronomy in society Factors contributing dissemination of Gastronomic knowledge. Orientation to European Gastronomy. Modern approach towards study of Gastronomy Developing the skills of Gastronomic analysis	**15.HRS**	Larrouse Gastronomy	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

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UNIT 2	History of European Gastronomy Birth and growth till 18th century The 19th century-The golden age The 20th Century Cuisines Nouvelles Contributors to development of modern cuisine and gastronomy Escoffier Fernand Point Ferran Adria Grant Achatz Assignment: 1. Current trends of Gastronomy 2. Report of top ten restaurant list (Present/previous year) 3. Growth story of any two Michelin star chefs- European chefs	**15.HRS**	Gastronomique Ma cusine by Auguste Escofier	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

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UNIT 3	History & growth of Indian Gastronomy Philosophy of ancient Indian cuisine Contributors to modern school of Indian cuisine Padamashri Chef Imtiyaz Quershi, Chef Vikas khanna, Gaggan Anand, Ms Camelia Punjabi, Padamashri Ms Thangam Philip, Chef Vineet Bhatia, Chef Atul Kochar, Padamashri Chef Sanjeev Kapoor, Ms Tarla Dalal etc. Current trends in Indian cuisine Factors contributing towards acceptance of Indian cuisine globally.	**15.HRS**	Theory of cookery - Krishna Arora Quantity food production- Thangam Phillip	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMRATA BHOLANATH KHARKANDI & SAGAR VAZE **SUBJECT : PRINCIPLES OF FOOD PRODUCTION**

CLASS: F.Y BACA **SEMESTER: I**

MONTH: AUG 2022- OCT 2023 **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE: Objective of this course is orientation to development of Culinary as profession, introduction to basic baking techniques and pre-preparation techniques of cooking.

The learners will be able to:

- Define aims of cooking, draw organization chart of classical kitchen brigade and list the duties of kitchen staff
- List ingredients, tools and equipment used in bakery and the methods of bread and cookies making
- List the kitchen, tools, equipments and fuels used in commercial kitchen.
- Pre-preparation, methods and list the methods of cooking food.

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**INTRODUCTION TO CULINARY ARTS** **1.1** Aims and Objectives of Cooking Food Hotels 1.1.2 Level of skills & experience 1.1.3 Attitude & Behavior in the kitchen 1.1.4 Career avenues open to chefs. 1.1.5 Classical Kitchen Brigade 1.1.6 Organizational Structure of The Kitchen 1.1.7 Modern Staffing in Various Category 1.1.8 Duties & Responsibilities Of Various Chefs 1.1.9 Coordination of Kitchen with Other Departments **1.2 INTRODUCTION TO BAKING (SAGAR VAZE)**	7 HRS	Basic Cookery – Daniel R. Stevenson Modern Cookery for Teaching & Trade – Thangam Philip	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. GOOGLE CLASSROOM 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

	1.2.1 Safe food Handling practices 1.2.2 Tools, Equipment & Key Ingredients required in Baking 1.2.3 Understanding different types of bread 1.2.4 Understanding different methods in bread making 1.2.5 Basic faults in bread making 1.2.6 Various types of Cookies 1.2.7 Different method of making Cookies **1.3 INTRODUCTION TO INDIAN COOKING** 1.3.1 Introduction 1.3.2 Philosophy of Indian 1.3.3 Food Influences of the Invaders &travelers on Indian Cuisine 1.3.4 Equipment used in Indian Cooking 1.3.5 Regional & Religious Influences on Indian Cuisine	4 HRS 4 HRS	Bakery materials & methods, A. R. Daniel	
UNIT 2	**2.1 TYPES & SECTIONS OF A KITCHEN** 2.1.1 Commissary 2.1.2 Butchery 2.1.3 Garde Manger 2.1.4 Satellite Kitchen 2.1.5 Bakry & Confectionery 2.1.6 Pantry Kitchen 2.1.7 Stewarding 2.1.8 Show Kitchen 2.1.9 Cafeteria Kitchen 2.1.10 Walk-in cooler & walk-in freezer **2.2 TOOLS, EQUIPMENT & FUELS USED IN THE KITCHEN** 2.2.1 Identification, Classification, & Uses of Equipment 2.2.2 Capital & Operational Equipment 2.2.3 Types & Uses of various knives,	8 HRS 7 HRS	Food & Beverage Management – Davis & Stone Published by Butterworth-Heinemann Ltd. Food Preparation & Cooking – Stanly Thorues	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. YOUTUBE VIDEOS 4. GOOGLE CLASSROOM 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS 7. ASSIGNMENT

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	2.2.4 care & maintenance of knives, 2.2.5 how to choose a knife Fuels used in the kitchen			
UNIT 3	**3.1 PREPARATION & MIXING OF INGREDIENTS** **3.2 COOKING TEMPERATURES & METHODS OF COOKING** 3.2.1 Heat Transfer & its relationship to Food Preparation 3.2.2 British Thermal Unit (BTU) 3.2.3 Heat Fusion Thermal Conductivity 3.2.4 Induction Cooking 3.2.5 Heat Removal-Cooling 3.2.5 Freezing of Foods 3.2.6 Thawing of Foods 3.2.7 Re-heating of Food 3.2.8 Effects of Heat on Foods 3.2.9 Boiling 3.2.10 Poaching 3.2.11 Stewing 3.2.12 Indian Dum Phukt 3.2.13 Braising 3.2.14 Frying a) Shallow b) Deep 3.2.15 Baking 3.2.16 Roasting Spit Roasting /Indian Tandoor Roasting 3.2.17 Microwave Cooking 3.2.18 Blanching	**7.5 HRS** **7.5 HRS**	Food Production Operations – Parvinder S. Bali-Oxford Publication	1. GOOGLE MEET 2. POWER POINT PRESENTATION 3. YOUTUBE VIDEOS 4. GOOGLE CLASSROOM 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS 7. ASSIGNMENT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45HRS

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NAMRATA BHOLANATH KHARKANDI & SAGAR VAZE **DEPARTMENT:** PRINCIPLES OF FOOD PRODUCTION

CLASS: F.Y BACA **SEMESTER: II**

MONTH: DEC 2022 – MARCH 2023 **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE: The Objective of this course is to familiarize the student towards analysis of food, stocks, soups, salads, eggs, fish and basic Indian cuisine

The learners will be able to:

- Furnish the basics of Food analysis List the methods of preparation of soups and stocks as mentioned in the syllabus.
- List the methods of preparation of sauces as mentioned in the syllabus.
- List various types of salads
- List various cuts of Fish
- Define various cuts of meat
- State basic principles of baking sponges and pastries
- List various masala combinations as mentioned in their learning material

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**SENSORY, IDENTIFICATION & EVALUATION OF FOOD INGREDIENTS** Organoleptic Sensory Evaluation (wherever necessary) (Taste, smell, hearing, eyes) Identification of Ingredients Presentation Basic Factors of presentation (temperature, flavour, colour, shapes)	5 HRS	Sensory evaluation of food and Practices by Harry T. Lawless	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS

1.2 1.3	Texture & Consistency (Firm & Close, short & crumbly, spongy, light & even, flaky, coarse, tough, hard, roping, pouring, soft peak, medium peak, stiff peak) **STOCKS, GLAZES, COOKING LIQUORS& THICKENING AGENTS** Introduction Definition of Stock & Glazes Uses of Stock & Glazes Classification of Stock White Stock (fond Blanc) Brown Stock (fond brun) & Indian Yakhni Stock Fish Stock (fumet) Vegetable Stock Neutral Stock Remouillage Court Bouillon Pot Liquor Emergency Stock / Convenience Bases Elements of Stocks & its Characteristics Precautions to be taken while preparing Stock Definition Starches as Thickening Agent Definition of Roux Types of Roux (white, blond, slack, brown) Other thickening agents • White wash (fecule) • Cornstarch (cornflour) • Arrowroot **SOUPS** Classification of soups with examples Clear Soup	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE	5. PRACTICAL OF HENDONIC TESTING (ORGANIC MATERIAL IDENTIFCATION OF SMELL, TASTE, TOUCH, VISUAL) IN CLASSROOM 1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. PRACTICE IN PRACTICALS

	Broth Consommé Thick soup Puree Cream Velouté Bisque Chowder Cold Soup Speciality Soup Tips for Making Good Soups	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. PRACTICE IN PRACTICALS
UNIT 2 **2.1**	**SAUCES** Definitions Functions & Uses Structure of Sauces Classification of Sauces Emulsions Definition of Emulsion Types of Emulsions a) Miscible b) Immiscible) Stabilisation of Emulsifiers Causes of Breakdown of the Emulsions Preparation of Basic Mother Sauces & Derivatives of Each	5 HRS 5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT
2.2	**SALADS** Introduction Composition of a Salad Types of Salad Various Types of Lettuce Used in Salads Salad Dressing Emerging Trends in Salad Making	5 HRS	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT

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2.3	Salient Features of Preparing Good Salads Classification of Vegetables **EGGS & FISH** Introduction Cooking of eggs for breakfast Identification & Classification of Fish Cuts of Fish Darne,Trançon ,Fillet,Suprême, Delice, Goujon Goujonettes Paupiette, En tresse, En Loregnette Pavé Cravate (plaited) Cooking of Fish		FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT
UNIT 3	**3.1 INTRODUCTION TO MEATS** Lamb, Pork, Beef, Veal & Furred Game Introduction Cuts of lamb, beef, veal and pork (with diagram) Processing of a Whole Animal Classification of Meats Yield Tests Introduction to Poultry & Game Bird Introduction Physical & Chemical Characteristics of Poultry Trussing Methods Some Classical Preparations of Poultry **3.2 BASIC SPONGE, CAKE & PASTRY (SAGAR VAZE)** Introduction Pastry Techniques and Principles Principles Behind Making of Sponge Points to be Kept in Mind While Making Sponges & Cakes Different types of Pastry Basic method of making pastry **3.3 MASALAS, PASTES & INDIAN GRAVIES** Introduction Blending of Spices & Concept of Masalas Concept of Dry & Wet Masalas Pastes used in Indian Cooking Difference between Gravies & Curries	**5 HRS** **5 HRS** **5 HRS**	FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY FOOD PRODUCTION OPERATIONS BY PARVINDER BALI THEORY OF COOKERY LAROUSSE GASTROMIQUE ON COOKING PROFESSIONAL COOKERY	1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT 6. PRACTICAL DISSECTION OF MEAT 1. POWER POINT PRESENTATION 2. YOUTUBE VIDEOS 3. RESEARCH MATERIALS 4. HOME STUDY AND QUIZ FOR STUDENTS 5. ASSIGNMENT 6. PRACTICAL DISSECTION OF MEAT

	Regional Gravies Preparation of Gravies			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45HRS

SIGNATURE OF THE STAFF

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio dsouza** DEPARTMENT:HOTEL MANAGEMENT CLASS: BACA SEMESTER: V

MONTH:NOVEMBER TO APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: The objective of Organizational Behaviour is to provide students with the opportunity to diagnose Individual and Group Behaviour. • The study of Structure, Motivation & Change helps to develop skills in improving individual and group performance in entrepreneurial and established ventures. • To develop the overall personality and sustain in the dynamic environment

The learners will be able to: .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	**Introduction to Organizational Behaviour** **1.1 Definition of Organizational Behaviour** **1.2 What Managers Do** 1.2.1 Management Functions 1.2.2 Management Roles 1.2.3 Management Skills 1.2.4 Effective v/s Successful Managerial activities **1.3 Disciplines that contribute to the Organizational Behaviour field** **1.4 Individual Behaviour** 1.4.1 Ability 1.4.2 Biographical characteristics 1.4.3 Learning & Process of Learning 1.4.4 Introduction & Importance to Perception, Values & Attitude 1.4.5 Personality & Its Determinants **1.5 Group Behaviour** 1.5.1 Types of Groups	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard • PPT

	1.5.2 The Five stage model (Group Dynamics / Development)			
	Organizational Structure 2.1 What is Organizational Structure 2.1.1 Six Elements of organizational structure 2.2 Organizational Designs 2.2.1 Common Organizational Designs (Simple, Bureaucratic, Matrix)			
	Motivational Concepts 3.1 Define Motivation 3.2 Early Theories of Motivation 3.2.1 Maslow Abraham's Hierarchy of Needs theory 3.2.2 Douglas McGregor's Theory X & Theory Y 3.2.3 Fredrick Herzberg's Two Factor Theory 3.2.4 Mc Cleland's Theory of Needs 3.3 Contemporary Theories of Motivation 3.3.1 Cognitive Evaluation Theory (Definition) 3.3.2 Goal setting Theory (Definition) 3.3.3 Self Efficacy Theory (Definition) 3.3.4 Reinforcement Theory (Definition) 3.3.5 Equity Theory (Definition) 3.3.6 Expectancy Theory (Definition) 3.4 Leadership & Types of Leadership 2.2.2 New Design options (Virtual, Team, Boundaryless)	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Stress Management 4.1 What is Stress? 4.2 Potential Sources of stress			

	4.3 Consequences of Stress 4.4 Managing stress 4.5 Introduction to Quality of Work Life			
	Organizational Change 5.1 What is change? 5.2 Elements / Factors of Change (External & Internal) 5.3 Planned Change 5.4 Resistance to change 5.5 Overcoming Resistance to Change 5.6 Approaches to Managing Organizational change 5.6.1 Lewin's 3 step model 5.6.2 Action Research 5.6.3 Meaning of Organizational Development & Techniques / Intervention 5.7 Introduction to Diversity & Managing Diversity	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Conflict Management 6.1 Definition of Conflict 6.2 Sources & Types of Conflict 6.3 Conflict Management Styles 6.4 Power and Politics 6.4.1 Concept & Basis of Power 6.4.2 Organization Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production & Patisserie I **CLASS:** FY.BACA

SEMESTER: I MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

- To inculcate a right attitude and the required basic knowledge and technical skills in the art of culinary and the food production department.
- To introduce the various equipments and utensils used in the kitchen.

The learners will be able to:

- The learners will be able to:
- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**Dairy Products** 1.1 Identify & Name the Dairy Products - Milk (Full Cream (whole), Skimmed, Semi Skimmed Milk, Condensed Milk (Evaporated, Powdered) - Cheese (Hard, Semi - Hard, Soft) - Yoghurt & Cultured Milk Drinks (flavoured, natural & drinking yoghurt) - Butter (unsalted, salted) & Cream (double cream, soured cream, crème fraîche 1.2 State the nutritional value of dairy products 1.3 Explain the factors to consider when choosing dairy products		Ingredients - Loukie Werle & Jill Cox – H. Fullman The world Encyclopedia of Cooking ingredients – Christine Ingram - Hermes House Herbs - Joanna farrow - Hermes House The Visual Food Encyclopedia - The Definitive Practical Guide to Food & Cooking – Francois Fortin &	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS.

	1.4 Explain how dairy products should be stored 1.5 Demonstrate the use of suitable methods when preparing and cooking dishes using dairy products. **2. Cereal Products** 2.1 Identify & Name the types of cereals : - Wheat, Corn, Oats, Rice, Barley, Rye, Quinoa, Millet, Beans, Lentils, Peas Cereal Grain - Semolina, Cracked Wheat, Bran, Wheat Flakes, Cous Cous, Bulgur Wheat Cereal Products - Flours, Bread, Pasta, Noodles, Asian Wrappers, Raising Agent (Fresh Yeast, Dried Yeast, Baking Powder , Baking Soda, Cream of Tartar) 2.2 State the nutritional value of the different types of cereals and cereal products 2.3 Identify the basic structure of cereal grains 2.4 Explain the factors to consider when choosing cereals and cereal products 2.5 Explain how cereals and cereal products should be stored 2.6 Demonstrate the use of suitable methods when preparing and cooking cereals and cereal products **3. Eggs** Identify different types of egg (hen, quail, duck, emu, ostrich, bantam, goose, turkey, guinea fowl eggs, pheasant, wild bird eggs & preserved eggs). 3.1 Identify the structure of an egg 3.2 State the nutritional value of an egg 3.3 Explain the factors to consider when choosing eggs 3.4 Explain how eggs should be stored 3.5 Describe the uses of eggs 3.6 Demonstrate the use of suitable methods when preparing and cooking eggs. 4. Vegetables 4.4 Name & Classify the different vegetables : - Roots, tubers, bulbs, shoots, green leaves, Chinese greens, peas, beans, pods,		Serge D’Amico – Macmillan	

	squashes, vegetable fruits, salad vegetables, mushrooms, fungi, stems, flowers, fruit, seeds, (pulses and legumes) 4.2 State the nutritional value of vegetables 4.3 Explain the factors to consider when choosing vegetables 4.4 Explain how vegetables should be stored 4.5 Demonstrate the use of suitable methods when preparing and cooking vegetables			
UNIT2	5. Fruits 5.1 Name && Classify the different Fruits: - Apples, Pears, Quinces, Medlars, - Melons, grapes, figs, rhubarb, - Berries, currants, citrus, pome, stones, tropical - Dried, bottled & crystallised fruits 5.5 State the nutritional value fruit 5.4 Explain the factors to consider when choosing fruits 5.5 Explain how fruits should be stored 6. Flavourings & Herbs 6.1 State the uses of flavourings & herbs 6.2 Name some common Herbs & Spices 6.6 Explain how herbs & spices should be stored 6.4 Describe the uses of eggs 6.5 Demonstrate the use of spices & herbs in preparation of dishes / meals. 6.6 Demonstrate the use of suitable methods when preparing and cooking eggs.			1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

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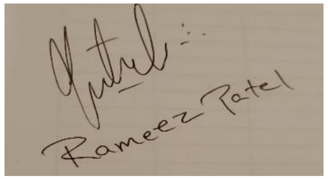
UNIT 3	7. Meat, Poultry & Game 7.1 Identify &Name the different types of Meat : - Beef & Veal - Pork, Lamb, Chicken, Turkey - Duck & Goose - Furred & Feathered Game - Sausages & Salami - Ham, Bacon & Cured Meat 7.2 State the nutritional value of the different types of Meat 7.3 Identify the cuts of meat 7.4 Describe the structure of meat and its effects on preparation and cooking 7.5 Explain the factors to consider while choosing meat 7.6 Explain how meat should be stored 7.7 Demonstrate the use of suitable methods when preparing and cooking meat			1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

The learners will be able to:

- The different types of Menus and principles of menu planning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** MEALS AND MENU PLANNING 1.1 Menu – Origin, definition & objectives 1.2 Types of meals (Breakfast, Brunch, Lunch, Afternoon tea, High tea, Dinner) Types of Menu a. A la c arte b. Table d' hote c. Cyclic menu d. Banquet menu e. Carte du jour / plat du jour f. Californian menu g. Take-away Other types of menu a) Children's menu b) Club menu c) Ethnic menu	7 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question

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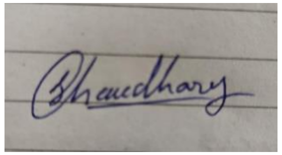
	d) Health menu e) Spa Menu f) Ayurvedic Menu 1.4 Principles of Menu planning 1.5 Breakfast: English, Continental, American, Indian 1.6 Types of Tea Service: Full Afternoon Tea, High Tea.			
	Revision Lectures	3 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

The learners will be able to:

- Sequence and course in the French classical menu also identify general accompaniments.
- Types, storage and service of Tobacco

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1.FRENCH CLASSICAL MENU 1.1 a. Sequence and Courses. b. General Accompaniments. 1.2 Ice creams: Types & categories of Ice creams	6 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	2.TOBACCO a) Introduction to Cigars and cigarettes. b) Types of tobacco c) Shape, size, color & Brand names with country of origin.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	5 Lectures		1. Classroom Theory Test 2. Viva

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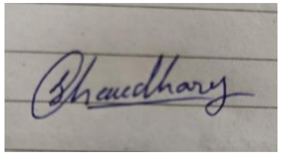
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.A.C.A.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE STUDIES

The learners will be able to:

- Types, storage and service Non alcoholic beverages.
- Simple control system followed in a restaurant.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1.1 NON ALCOHOLIC BEVERAGES a. Definition of beverages b. Classification chart –alcoholic & non alcoholic drinks. c. Stimulating -Tea, Coffee & Cocoa, (origin, manufacture, Method of preparation, types & brands) d. Nourishing -health drinks e. Refreshing –juices, squashes, crushes, syrups & aerated water Table Water (origin, types & brands) & carbonated water.	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question

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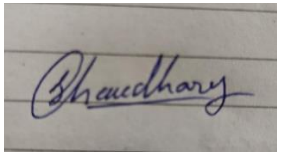
	1.2 SIMPLE CONTROL SYSTEMS. a. Restaurant reservation system b. KOT Checking System c. Types of KOT / BOT d. Method of billing (manual & computerized)	4 Lectures		1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	4 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

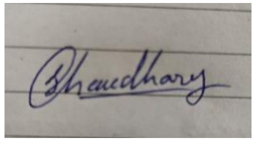
The learners will be able to:

- The different types of Menus and principles of menu planning.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** MEALS AND MENU PLANNING 1.1 Menu – Origin, definition & objectives 1.2 Types of meals (Breakfast, Brunch, Lunch, Afternoon tea, High tea, Dinner) Types of Menu a. A la c arte b. Table d' hote c. Cyclic menu d. Banquet menu e. Carte du jour / plat du jour f. Californian menu g. Take-away Other types of menu a) Children's menu b) Club menu c) Ethnic menu	7 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question

	d) Health menu e) Spa Menu f) Ayurvedic Menu 1.4 Principles of Menu planning 1.5 Breakfast: English, Continental, American, Indian 1.6 Types of Tea Service: Full Afternoon Tea, High Tea.			
	Revision Lectures	3 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Sequence and course in the French classical menu also identify general accompaniments.
- Types, storage and service of Tobacco

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1.FRENCH CLASSICAL MENU 1.1 a. Sequence and Courses. b. General Accompaniments. 1.2 Ice creams: Types & categories of Ice creams	6 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	2.TOBACCO a) Introduction to Cigars and cigarettes. b) Types of tobacco c) Shape, size, color & Brand names with country of origin.	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	5 Lectures		1. Classroom Theory Test 2. Viva

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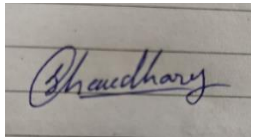
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SAGAR R. CHAUDHARY** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: II

MONTH: **JANUARY 2023 – APRIL 2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Types, storage and service Non alcoholic beverages.
- Simple control system followed in a restaurant.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

VIVA COLLEGE
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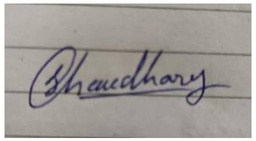
HOTEL & TOURISM MANAGEMENT STUDIES

Unit III	1.1 NON-ALCOHOLIC BEVERAGES a. Definition of beverages b. Classification chart –alcoholic & non alcoholic drinks. c. Stimulating -Tea, Coffee & Cocoa, (origin, manufacture, Method of preparation, types & brands) d. Nourishing -health drinks e. Refreshing –juices, squashes, crushes, syrups & aerated water Table Water (origin, types & brands) & carbonated water.	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. P.P.T. 2. Related Topic Videos 3. Theory Notes Along With Question
	1.2 SIMPLE CONTROL S YSTEMS. a. Restaurant reservation system b. KOT Checking System c. Types of KOT / BOT d. Method of billing (manual & computerized)	4 Lectures		1) P.P.T. 2) Related Topic Videos 3) Theory Notes Along With Question
	Revision Lectures	4 Lectures		1) Classroom Theory Test 2) Viva

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17



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HOTEL & TOURISM MANAGEMENT STUDIES

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Student should be able to identify the role of the Food and Beverage Service department and explain its organization structure and importance.
- Explain how "moments of truth" affect guests, staff members, and managers, and describe the value of guests and staff members to a food Service operation.
- Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I	**1.** INTRODUCTION TO HOTEL AND CATERING INDUSTRY 1.1 Role of catering establishment in travel / tourism industry 1.2 Types of F& B operation (Classification). Commercial (residential / Non Residential) • Welfare • Institutional • Transport (Roads, Railways, Airlines, Marine) 1.3 Structure of hospitality industry and career opportunities	4 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. DEPARTMENTAL ORGANISATION AND STAFFING 2.1 Organization of F & B Department of a Hotel (English & French) 2.2 Etiquette & Attributes of an F & B Personnel. 2.3 Duties and responsibilities of F & B Staff. a) F & B Manager. b) Banquet manager.	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet

	c) Outlet Manager (All day dining/ Bar/ In Room Dining/Specialty Restaurant, etc.) d) Senior captain/ Captain/ Supervisor. e) Steward. f) Sommelier. g) Hostess. h) Cashier. 2.4 Departmental Relationship of F& B with other Departments.			
	Revision Lectures	3 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Identify the operational and auxiliary areas as well as equipment's used in the Food and Beverage department.
- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II	1. OPERATIONAL & AUXILLARY AREAS OF FOOD AND BEVERAGE DEPARTMENT: IMPORTANCE & LAYOUTS a) Coffee shop b) Snack bar/ counter service c) Kiosks d) Specialty restaurant/ theme restaurant e) Banquet operations/ outdoor catering f) In-Room Dining g) Dispense Bar / Discotheque/ night club/ pub h) Pantry/Still room i) Kitchen stewarding j) Silver room k) Linen room l) Vending machine	5 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1. Google Classroom 2. Google Slides 3. Video Links 4. Google Meet
	2. FOOD AND BEVERAGE SERVICE EQUIPMENT 2.1 Classification of equipment. (Familiarization of equipment). 2.2 Criteria for selection and requirements. • Tableware/ silverware (cutlery/ hollowware/flatware)	7 Lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	1) Google Classroom 2) Google Slides 3) Video Links 4) Google Meet

	• Glassware • Crockery • Bar equipment(For all of the above Brands, Measures & Quality suppliers) • Special equipment with their uses. • Furniture (Tables/Chairs/Trolleys/Dumb Waiter) • Linen. • Light and décor • Care and maintenance of equipment. • Napkin folds. 2.3 Table d' hôte, A'la carte Mis-en –place, Mis -en –Scene			
	Revision Lectures	5 Lectures		1. Google Classroom 2. Google Slides 3. Google Meet 4. Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 17

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B.DHARNE** DEPARTMENT: **FOOD & BEVERGE SERVICE** CLASS: **F.Y.B.Sc.Hs.** SEMESTER: I

MONTH: **AUGUST 2022 – DECEMBER 2022** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: FOOD & BEVERGE SERVICE OPERATIONS

The learners will be able to:

- Understand the various service methods and procedures followed in the department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III	1. DINING SERVICES METHOD AND PROCEDURES 1.1 Different methods of services a. Table service • Silver service/ English service • American/ Plated • Family • Russian • French/ butler • Guéridon b. Bar Counter c. Assisted Service • Carvery • Buffets d. Self Service •Cafeteria: a).Counter b).free-flow c).Echelon d).Supermarket e. Single point service •Take-away	9 lectures	Food & Beverage Service 9 Edition- John Cousins Dennis Lillicrap	5. Google Classroom 6. Google Slides 7. Video Links 8. Google Meet

	•Drive through •Fast food •Vending •Kiosk •Food court •Bar f. Specialized (in-situ) •Tray •Trolley •Home delivery •Lounge •Room •Drive in 1.2 Special Service • Formal Service • Wave service • Carlton club service 1.3a. Rules to be observed while laying the table. b. Rules to be observed while waiting at the table. c. Dos & don’ts in a restaurant			
	Revision Lectures	5 Lectures		1) Google Classroom 2) Google Slides 3) Google Meet 4) Google Quiz

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

SIGNATURE OF THE STAFF

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VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
• **UNIT 1** ALCOHOLIC BEVERAGES	• ALCOHOLIC BEVERAGES a. Definition, history of Alcoholic Beverages & classification. b. Benefits and harmful effects of alcohol.	02	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	WINES • **1.1 Definition & history of wines.** • **1.2 Types of Wines:** • **Still (red, white & rose), sparkling/Champagne, Fortified (sherry, port, Madeira, Marsala & Malaga), Aromatized wines (Vermouth).** • **1.3 Methods of production, Still (red, white, rose).** • **a) Viticulture** • **(Wine calendar, terroir, vine species, grape varieties & diseases).** • **b) Vinification**	13	•Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Quiz Google slide

	• (Manufacturing process, elements of wine & faults in wines). • c) Champagne & Sparkling Wines. • (History, districts, grape varieties, Methode Champenoise, cuvee close, transfer method, charmat & impregnation, Names & bottle sizes). • d) Fortified Wines (Production & types). • 1) Sherry (Solera system) • 2) Port • 3) Madeira (estufagen) • 4) Marsala • 5) Malaga • e) Aromatized wines (Definition & types)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: Describe the duties and responsibilities of beverage service staff members, and summarize techniques and procedures for responsibly selling and serving cocktails, beer, and wine. • Understanding the production process of Beer, Wine and Spirits.

The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II	2.1 Wine producing countries of the world (Regions, Wine laws, labels & shippers). a) Old world wine producing countries (France, Italy, Germany, Spain & Portugal). b) New World wine producing countries (Australia, New Zealand, South Africa, U.S.A. & India).	10	•Dennis Lillicrap, John Cousins and Robert Smith-Food and Beverage Service •Larousse Christopher Foulkes- Encyclopedia of Wines-	Google classroom White board Quiz Google slide
	2.2 Wine tasting, Storage & Service	02	•Dennis Lillicrap, John Cousins and Robert Smith-Food and Beverage Service	Google classroom White board Quiz Google slide
	2.3 Food and wine Harmony.	03		Google classroom White board Quiz Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE
DEPARTMENT OF HOTEL & TOURISM MANAGEMENT
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SHRIKANT B. DHARNE** DEPARTMENT: **Food & Beverage Service** CLASS: **S.Y.B.Sc.H.S.** SEMESTER: IV

MONTH: **NOVEMBR-2022 to APRIL-2023** ACADEMIC YEAR: **2022-2023**

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The learners will be able to: Understand the different types of Alcoholic Beverages. Students will learn the types of Alcoholic beverages as per the production methods

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNITIII BEER & OTHER FERMENTED BEVERAGES	a) Definition, History & Brewing process. (Components of beer, top fermentation, bottom fermentation) b) Types of Beer, Storage & Service (Lager, Pilsner, Draught, Ale, Stout, Porter, Ice, Lambic & Smoked) c) Other fermented beverages (Cider, Perry, Mead, Sake & Toddy).	03	● Shatbi Basu- The can't go wrong Cocktail book ● Brian Glover- The world encyclopedia of Beer	Google classroom White board Quiz Google slide
	3.2 SPIRITS a) Introduction and definition b) Pot and patent still method of production. 3.3 History, Production, types & Brand names (national & International) a) Whisky (Scotch, American, Canadian, Irish & Japanese) b) Rum (White, Gold, Dark & Flavoured) c) Brandy (Cognac, Armagnac & Fruit) d) Gin	03	•Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide

	e) Vodka, flavoured vodka f) Tequila & Mezcal			
	3.4 Alcoholic Strength :Proof, GL, Sykes, U.S., British (OIML) 3.5 Other Spirits (Aquavit, schnapps, Pastis, ouzo, arrack) 3.6 LIQUEURS Introduction, definition, classification & production of liqueurs a) Different types of liqueurs: Base, Flavours, Country of origin. b) Brand names of liqueurs (Generic & Proprietary)	04	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	3.7 APERITIFS & BITTERS a) Definition b) Brand names	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide
	3.8 GLOSSARY OF TERMS RELATED TO Alcoholic beverages, Menu terminologies.	02	Vijay Dhawan- Food and Beverage Service **FOOD & BEVERAGE SERVICE** •Dennis Lillicrap, John Cousins and Robert Smith- Food and Beverage Service	Google classroom White board Quiz Google slide

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.

- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1.1 F & B Outlet Planning 1.1.1 Objective of a good layout 1.1.2 Steps in planning of layout. (Specialty Restaurants, Coffee Shop, Room Service) 1.1.3 Factors to be considered while planning the actual ambience (Colour, light, décor, furniture & uniform) 1.2 Operational aspects of various F & B Outlets (Specialty Restaurants, Coffee Shop, Room Service) 1.2.1 Menu planning 1.2.2 Constraints of Menu planning 1.2.3 Planning of staff requirement 1.2.4 Shifts (Panzer, Straight, Split & Reliever)	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	1.2.5 Factors to be considered for selecting appropriate Crockery, Cutlery, Glassware, and Linen. 1.3 Elements of cost 1.3.1 Types of cost (Material, Labour & Overhead) 1.3.2 Cost Groups (Fixed, semi-fixed & variable) & types of profit (gross & net) 1.3.3 Breakeven / Cost volume profit analysis			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-24

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.

- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	Function Catering / Banquets 2.1 Definition, History & Importance 2.2 Organization of Banquet dept., duties and responsibilities. 2.3 Types of Banquets: Formal, Semiformal & Informal 2.4 Banquet Sales 2.5 Banquet reservation diary and booking procedure. 2.6 Function contract & Function prospectus 2.7 Banquet Menus 2.8 Types of service in the banquets.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	2.9 Staffing & Duty allocation 2.10 Toast procedure at wedding reception & Protocol 2.11 Outdoor catering. 2.12 Glossary **Glossary**			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: V

MONTH: **June - November** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify Food & Beverage setup and planning of various outlets in the department.

- Describe casual, theme restaurants etc. and how they are operated.
- How food service managers develop and manage labour & revenue control system.
- Explain how banquets and catering events are booked and planned, and describe how managers and staff members provide service for these events.
- Explain the operations of various catering establishments such as Railway, Airline & Marine caterings.

The learners will be able to: Students will learn Food & Beverage setup and planning of various outlets, how banquets and catering events are booked and planned.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	3.1 Buffet. 3.1.1 Definition & Types of buffets. (Meal period, manner of consumption, food served & other types – Display, Gourmet & Running) 3.1.2 Points to be considered while planning a buffet. 3.1.3 Buffet equipment 3.1.4 Banquet layout (formal, informal & cabaret) & Space area calculation 3.1.5 Meeting room setups: (U Shape, Hollow Square, Classroom Theatre, Board of Directors, 'T' Shape)	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	3.2 Food and Beverage Management in various catering establishments 3.2.1 Railway Catering & Airline catering 3.2.2 Marine Catering (offshore & cruise liners) 3.2.3 Industrial catering			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

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The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	1 Gueridon Service 1.1 Origin, history and definition 1.2 Factors to create impulse buying. 1.3 Advantages and disadvantages of Gueridon service 1.4 Principles of Gueridon service. 1.5 Flambé trolley & other trolleys (Carving, Cheese, Liqueur, Salad & Dessert). 1.6 Gueridon equipment & ingredients, Mise en place & Presentation.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A Training Manual,(Second Edition),	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

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	2 Food and Beverage Management. 2.1 Objectives of Food & Beverage Management. 2.2 Food and Beverage Management/ Function 2.3 Cost and Market orientation 3 Food and Beverage Control 3.1 Objective of F& B Control. 3.2 Obstacles of F& B Control. 3.3 Food Control checklists. 3.4 Beverage Control checklist			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

.

The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	Bar Operations 4.1 Definition & classification. 4.2 Layout & parts for Front of the house dispense bar. 4.3 Bar Thefts and frauds. (Nature and prevention.) 4.4 Records & Licenses maintained in a Bar (Naukarnama, Permit, TPIN, Bill book, & B.O.T.). 5.1 Cocktails & Mixed drinks a) Introduction, History & Definition	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	b) Bar Equipment. (glassware, fixed & movable equipment) c) Methods of Mixing Cocktails. (Stirred, Shaken, Built up/Layered, Blended & Muddled) d) Styles of Cocktails (Collins, cobblers, coolers, crustas, cups, e) daisies, eggnogs, flips, frappes, fixes, fizzes, Highball, juleps, f) Pick-me-ups, pousse café, smashes, sours, swizzles & toddies). g) Rules to be observed while making cocktails. 5.2 Recipes of classic & exotic cocktails. a) Whisky: (Godfather, Manhattan, Mint Julep, Whisky Sour		Training Manual,(Second Edition),	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio Dsouza** DEPARTMENT: **Adv Food & Beverage Ops. Mgm.** CLASS: T.Y.H.S SEMESTER: VI

MONTH: **November - April** ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: Identify factors to create impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley.

· Plan & operate a Bar operation, Manage inventory and maintain records pertaining to beverage control.

· Understand and apply cost dynamics as related to the Food & Beverage industry. · Demonstrate a detailed understanding of the various facets of the Food & Beverage cycle of control in the operational & post operational phase.

.

The learners will be able to: Students will learn impulse buying; prepare, fillet, carve, flambé & finish food items from a Gueridon trolley, Plan & operate a Bar operation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	Cycle of control. 6.1 Operational phase 6.1.1 Purchasing 6.1.1.1Methods of purchasing Food / Beverage. (Contract / Daily / Weekly/ Fortnight / Cash and Carry) 6.1.1.2 Selection of a supplier 6.1.1.3 Purchase specification 6.1.1.4 Purchase order.	15	1) Lilicrap, Dennis & Cousins, John, (1994), Food and Beverage Service, Common Wealth Publication, New Delhi 2) Singaravelavan .R, (2011), *Food and Beverage Service*, Oxford University Press, Delhi 3) Andrews S, (2009), Food & Beverage Service A	1)Power point presentation 2) Videos 3) Google classroom 4)White board 5)Quiz 6) Google slide 7) Jam board

	6.1.2 Receiving 6.1.2.1 Quality inspection 6.1.2.2 Quantity inspection 6.1.2.3 Receiving records Maintained 6.1.3Storing & Issuing 6.1.3.1Bin card 6.1.3.2Store ledger 6.1.3.3 Indent/ requisition 6.2 Post Operational Control: Management after the event phase. 6.2.1 Methods of Food control. 6.2.2 Methods of Beverage control 6.2.3 Detailed Daily Food cost report		Training Manual,(Second Edition),	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pratyasha Pattanaik** DEPARTMENT: Room Division Management (Front Office) CLASS: F.Y. BSc HS

SEMESTER: I

MONTH: July to November ACADEMIC YEAR: **2022 - 2023**

LEARNING OBJECTIVE: To introduce the students to the hotel & tourism Industry. Students would develop the necessary skill required as an efficient and effective receptionist and to handle situations and types of guest in the job.

The learners will be able to:

- Understand the appropriate organization structures and duties in the Front Office and related departments.
- Develop, prepare guest relations, and evaluate practical aspect with guests.
- Understand the role of public relations with hotel industry.
- Understanding the functioning of the Telecommunication department.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	**Introduction to the Hotel & Tourism Industry** • An account of development & growth of hotel & tourism Industry in the World • Development and growth of Hotel & Tourism Industry In India. **Classification of Hotels by** • Location • Architectural Design • Number of rooms • Ownership	15	Jatashankar Tiwari – Front Office Management. Sudhir Andrews – Hotel Front Office Training Manual.	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

	• Pricing Plan • Type of Clientele • Duration of Guest Stay • Facilities Offered • Star ratings criteria in India (HRACC) • Supplementary Accommodation			
UNIT – 2	**Tariff Structure** 1.Types of Rooms Single, Double, Twin, Hollywood twin, Interconnecting, Adjacent, Adjoining, Lanai, Penthouse, Duplex, Efficiency, Physically Challenged, Studio, Parlour, Hospitality Room, Suite (Types). 2.Tariff Fixation • Check-in and Check-out basis, 24 hour basis, on the basis of competitor's rate, Night basis, Day rate. 3.Types of Meal Plans European, Continental, Bermuda Plan, Modified American Plan (Half- Board, Demi- Pension), and American Plan (Full-Board: En Pension).	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

	4. Packages and Special Rates Rack rate, Group rate, Volume rate, Government rate, FIT, Wholesale net rate, discounted rates, Seasonal rate, Crib Rate, Extra bed rate, Family rate, Crew rate, Week day/Weekend rates, Membership rates, Executives of the other units of the same chian, Corporate rate, Commercial rate, Advance purchase rate Package rate, Ad-hoc rate 5. Taxation • Luxury tax, Expenditure tax, Sales tax, Value added tax and other statutory taxes. • Service Charges. **Organisation of the Front Office Department** Organisation charts of • Small Hotel • Medium Hotel • Large Hotel Sections of the Front Office Department Inter and Intra departmental Co-ordination Job Specifications and Job Description • Front Office Manager • Duty Manager • Guest Relations Executive			

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HOTEL & TOURISM MANAGEMENT STUDIES

UNIT – 3	**Telecommunications** Introduction • Types of Exchange- PBX, PABX, EPABX • Other Communication Equipment- Walkie- Talkies, Pagers, Mobile Phones, Telephone Instruments, Pay Phones, Facsimile. • Organisation of the Telecommunications department • Job descriptions of the Telecommunications department supervisor & Operator • Skills and Competencies of the Telephone Operator • General duties of a Telephone Operator • Internet Access- Introduction, Dial up access, High speed with wired access, High speed with warless access • Future of Hotel telephones- Voice-over-internet-protocol (VOIP) • AYS – at your service	15		1. Slides 2. Videos 3. Quiz 4. Power Point 5. Presentation 6. PDF 7. Word 8. White Board 9. Projector 10. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Prats

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Deepika Vibhad** DEPARTMENT: Room Division Management (Front Office) CLASS: FY BSc HS

SEMESTER: II

MONTH: November to March ACADEMIC YEAR: **2022 -2023**

LEARNING OBJECTIVE: The student should be able to understand the concept and functioning of room reservations, reception & guest services.

The learners will be able to: know the entire procedure of room reservations and its types, different situations of check in along with the guest services.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	RESERVATIONS • Sources of Reservations • Modes of Reservations • Types of Reservations • Systems of reservations • Overbooking • Job Description of Reservation Personnel	15	Jata Shankar Tiwari – Front Office Management Sudhir Andrews – Front Office Training Manual B K Chakravati – Front Office Management in Hotel	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

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HOTEL & TOURISM MANAGEMENT STUDIES

UNIT – 2	RECEPTION • Profiling the guest • Guest Registration Process • Regular and Non Regular Guest • 'C'Form & 'F' From	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion
UNIT -3	GUEST SERVICES • Handling Guest Mail • Message Handling • Custody and Handling of Keys • Guest Paging • Safe Deposit Locker • Guest Room Change • Custody of Deposited Luggage	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Prats

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production & Patisserie I **CLASS:** FY.Bsc.Hs

SEMESTER: I MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

- To inculcate a right attitude and the required basic knowledge and technical skills in the art of culinary and the food production department.
- To introduce the various equipments and utensils used in the kitchen.

The learners will be able to:

- The learners will be able to:
- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**1 Introduction to the Food Production Department** 1.1 Levels of Skills and Experience 1.2 Attitude and Behavior in the Kitchen 1.3 Kitchen Uniforms 1.4 Personal Hygiene 1.5 Safety Procedures for Handling Equipment **2 Culinary History and Culinary Terms** (Explanation with Examples) Origins of Modern Cookery	01.HRS 02.HRS 04HRS	Thangam Philip – Modern Cookery I & II – Orient Longman – 2001 Auguste Escoffier – Ma Cuisine – Hamlyn – 2000 Digvijay Singh – Cooking Delight of the Maharajas – Vakils, Feffer & Son's Ltd. –	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS.

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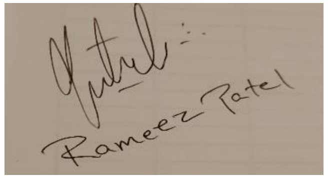
HOTEL & TOURISM MANAGEMENT STUDIES

UNIT 2	**3 Equipment and Hand Tools used in Kitchen & Different Types of Fuels used in Kitchen** 3.1 Hand tools and utensils used in Kitchen 3.2 Various Fuels used in the Kitchen 3.3 Advantages & Disadvantages of Various Fuels 3.4 Various Equipment used in the Kitchen **4 Introduction to Cooking** 4.1 Aims and Objectives of Cooking 4.2 Classification of Various Raw Materials according to Functions 4.3 Various Textures and Consistencies 4.4 Methods and Techniques of Preparation **5 Stocks** 5.1 Definition of Stock 5.2 Types of Stocks 5.3 Preparation (Recipe), Storage, Care and Precautions in Preparation **6 Culinary Terms**	**04.HRS** **02.HRS** **02.HRS**	1982 Philip Dowell & Adrian Barley – The Book of Ingredients – Mermaid Books – 1987 Wayne Gisslen – Professional Baking – John Wiley & Sons – 1994 Martha Day – Baking – Lorenz Books – 1999 M. J. Leto & Bode – The Larder Chef – Heinemann Publishing House – 1989 Parvinder S. Bali - Food Production Operations Thangam E. Philip - Modern Cookery for Teaching and Trade - 4th Vol. – 1996 Krishna Arora - Theory of Cookery – 2nd – 1992 Wayne Gisselen - Professional Cooking – 4th – 1992 Wayne Gisselen - Professional Baking – 2nd – 1994 J. C. Dubey - Basic Bakery - 1st – 1992 Kinton Ceserani - Theory of Catering – 7th – 1996 Bernard Davis - Food Commodities - 4th – 1998 Daniel R. Stevenson - Basic Cookery The Process Approach - 5th – 1997	
	7 Methods of Cooking 7.1 Various Methods of Cooking Foods (Roasting, Grilling, Frying, Baking, Boiling, Poaching, Microwave)	**04.HRS**		

UNIT3	7.2 Principles of each Method and Precaution to be taken	**03.HRS**		
	8 Hierarchy and Kitchen Staffing 8.1 Classical Kitchen Brigade 8.2 Modern Staffing in Various Category Hotels 8.3 Duties and Responsibilities of Various Chefs 8.4 Role and Duties of the Executive Chef 8.5 Inter-Departmental Co-operation and Co-ordination			1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS
	9 Egg 9.1 Selection of Eggs 9.2 Structure of Eggs 9.3 Uses of Eggs 9.4 Nutritive Value of Eggs	**02.HRS**		
	10 Vegetables & Fruits 10.1 Classification of Vegetables 10.2 Colour Pigments in Vegetables and Effects of Heat, Acid and Alkali on each of them 10.3 Cuts of Vegetables 10.4 Classification of Fruits 10.5 Uses of Fruits 10.6 Salad & Salad Dressing	**04.HRS**		
	11 Bakery & Pastry Sugar 11.1 Importance of Sugar 11.2 Types of Sugar 11.3 Cooking Stages and Temperature of Various Stages 11.4 Uses of Sugar	**02.HRS**		1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET 4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS 6. HOME STUDY AND QUIZ FOR STUDENTS
	12 Sauces 12.1 Classification of Sauces / Composition 12.2 Mother Sauces and its Recipes (1 Liter) 12.3 Derivatives	**04.HRS**		
	13 Bakery & Pastry	**03.HRS**		

	13.1 Bread Making Principles of Bread Making Role of Each Ingredient Simple Yeast Bread Baking Temperature & its Importance 13.2 Cookies Types of Cookies Methods of Preparation 13.3 Flour – Structure of Wheat Types of Wheat Types of Flour Milling of Flour Nutritive Value 13.4 Raising Agents Classification and Role of Raising Agents	**02.HRS** **04.HRS**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



SIGNATURE OF THE STAFF

SIGNATURE OF THE H.O.D.

VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: RAMEEZ SHAKEEL PATEL **DEPARTMENT**: Food Production and Patisserie **CLASS:** FY.Bsc.Hs

SEMESTER: 2

MONTH: ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE:

• To develop a keen interest in food production and to enable students to experiment, innovate and progressively produce a variety of preparation / dishes.

• To gain confidence to adapt to the technical skills and the art of preparing different menus, Indian as well as Continental.

• By the end of the second semester students should be confident enough in their skills which would boost their morale to take up the challenge of bulk cookery in the third and fourth semester

The learners will be able to:

- Define microbes and conditions for growth of microbes
- List the importance and basic principles of HACCP
- List micro organisms
- Define Food Adulteration and adulterants
- State the types and uses of Food Additives
- State the importance of Hygiene
- List various methods of Food Preservation
- State the regulations and regulating bodies governing Food Safety and Hygiene.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	**1.Culinary Terms with Explanation & Examples** **2.Layout of kitchen** 2.1 General Layout of the Kitchen 2.2 Receiving Area	**03.HRS** **03.HRS**	Thangam Philip – Modern Cookery I & II – Orient Longman – 2001 Auguste Escoffier – Ma	1. POWER POINT PRESENTATION 2. GOOGLE CLASSROOM 3. GOOGLE MEET

UNIT 2	2.3 Storage 2.4 Wash up **3.Soups** 3.1 Classification with Examples 3.2 Consommé and Garnishes with their names (Any 10 common name) **4.Fish Mongery** 4.1 Classification of Fish with examples 4.2 Selection, Cooking & Storage of Fish 4.3 Local Names of Fin Fish and Shell Fish 4.4 Cuts of Fish **5.Poultry** 5.1 Cuts of Poultry 5.2 Selection and Uses of Cuts **6.Rice, Cereals & Pulses** 6.1 Introduction, Classification of Cereals and Pulses 6.2 Varieties of Rice and Byproducts 6.3 Nutritive Value of Various Cereals 6.4 Sprouts and Uses **7.Meat** 7.1 Introduction to Meat Cookery 7.2 Cuts of Lamb, Pork, Beef / Veal 7.3 Variety of Meats / Offal 7.4 Selection and Storage of Meats **8.Milk and Milk Products**	**02.HRS** **02.HRS** **02.HRS** **03.HRS** **04.HRS** **05.HRS**	Cuisine – Hamlyn – 2000 Digvijay Singh – Cooking Delight of the Maharajas – Vakils, Feffer & Son's Ltd. – 1982 Philip Dowell & Adrian Barley – The Book of Ingredients – Mermaid Books – 1987 Wayne Gisslen – Professional Baking – John Wiley & Sons – 1994 Martha Day – Baking – Lorenz Books – 1999 M. J. Leto & Bode – The Larder Chef – Heinemann Publishing House – 1989 Parvinder S. Bali - Food Production Operations Thangam E. Philip - Modern Cookery for Teaching and Trade - 4th Vol. – 1996 Krishna Arora - Theory of Cookery – 2nd – 1992 Wayne Gisselen - Professional Cooking – 4th – 1992 Wayne Gisselen - Professional Baking – 2nd – 1994 J. C. Dubey - Basic Bakery - 1st – 1992 Kinton Ceserani - Theory of Catering – 7th – 1996 Bernard Davis - Food Commodities - 4th – 1998 Daniel R. Stevenson - Basic Cookery The Process Approach - 5th – 1997	4. YOUTUBE VIDEOS 5. RESEARCH MATERIALS HOME STUDY AND QUIZ FOR STUDENTS.

	8.1 Introduction, Processing of Milk, Pasteurization, Homogenization, Milk in Various Forms e.g. Toned, Powder, Skimmed, Condensed & Evaporated. 8.2 Cream – Introduction, Processing & Types 8.3 Butter – Introduction, Processing & Types 8.4 Cheese – Introduction, Classification with Examples, Processing, Types, Cooking with Cheese and Uses.			
UNIT3	**9,Bakery & Pastry** **Shortening – Fats and Oils** 9.1 Saturated and Un-saturated Fats 9.2 Advantages & Disadvantages of Using Fats 9.3 Varieties of Shortening **10.Tea & Coffee** 10.1 Introduction 10.2 Producing Regions/Country 10.3 Types and Methods of Preparation 10.4 Popular Brands and Variety Available **11.Thickening Agents used in Indian Gravies** 11.1 Role of Thickening Agents **12.Indian Cookery** 12.1 History of Spices and Trade Routes 12.2 Basic Spices, Condiments and Masalas 12.3 Role of Spices in Indian Cuisine 12.4 Indian Equivalent name 12.5 Blending of Spices 12.6 Concept of Wet and Dry Masalas 12.7 Regional Varieties of Basic Masalas 12.8 Basic Composition of Some Important Masalas **13.Menu Planning** 13.1 History of Menu 13.2 Types of Menu 13.3 Menu Planning Principles	**03.HRS** **02.HRS** **01.HRS** **03.HRS** **02.HRS**		1.

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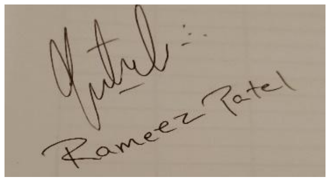
	14.Bakery & Pastry 14.1 **Pastries** • Classification of Pastries • Varieties • Role of Each Ingredient • Baking Temperature and Time of Each Pastry 14.2 **Pastry Cream** • Basic Pastry Cream • Use in Confectionery • Preparation and Care in Production 14.3 **Cocoa and Chocolate** • Introduction, Production and Manufacture • Varieties of Chocolates • Tempering of Chocolates	**04. HRS** **03.HRS** **03.HRS**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45



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HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.** DEPARTMENT: **Room Division Management-II.**

CLASS: **F.Y.BSc.HS.** SEMESTER: **I.**

MONTH: **Academic Year 2022-2023.** SUBJECT: **Housekeeping.**

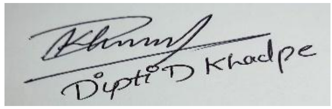
LEARNING OBJECTIVE:

The student will be able to identify the role of the housekeeping department and explain its organization structure and importance.
The student will be able to list the basic cleaning equipment's, cleaning agents and explain their use.
Will be able to perform basic cleaning procedures of various surfaces.

The learners will be able to understand organization structure, types of cleaning equipment and agent and surface.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. INTRODUCTION TO HOUSE KEEPING DEPARTMENT	15	Hotel Housekeeping Operations and Management (G. Raghubalan & Smritee Raghubalan – Oxford University Press).	1. PPT 2. VIDEO
II	1. ORGANIZATION OF HOUSEKEEPING DEPARTMENT	09		1. PPT
	2. CLEANING EQUIPMENT	06	Professional Management of Housekeeping Operations – (Thomas J. A. Jones – John Wiley & Sons)	1. PPT 2. VIDEO
III	1. CLEANING AGENTS	08		1. PPT 2. VIDEO
	2. CLEANING & POLISHING OF DIFFERENT SURFACES	07		1. PPT 2. VIDEO

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.



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VIVA COLLEGE
DEPARTMENT OF
HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.**

DEPARTMENT: **Room Division Management-II.**

CLASS: **S.Y.BSc.HS.**

SEMESTER: **III.**

MONTH: **Academic Year 2022-2023.**

SUBJECT: **Housekeeping.**

LEARNING OBJECTIVE:
The student will be able to explain various operational procedures and formats pertaining to linen, uniforms, and laundry.
The student will be able to create formats and design layouts of linen room, uniform room and laundry.
The student will be able to create Flower Arrangements for various occasions and locations.
The student will be able to plan and implement décor for special occasions.

The learners will be able to understand how to handle different fabrics, Flower arrangement & implement décor for special occasions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. LINEN ROOM OPERATIONS	10	Hotel Housekeeping Operations and Management (G. Raghubalan & Smritee Raghubalan – Oxford University Press).	1. PPT 2. VIDEO
	2. FORMATS	05		1. PPT
II	1. UNIFORM AND SEWING ROOM	05	Textile and Laundry in Hotel Industry – (Dr. D.K.Agrawal - Aman Publications). Stain Removal – (Stephanie Zia – Bounty Books).	1. PPT

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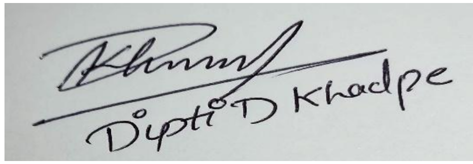
	2. LAUNDRY OPERATIONS	10		
III	1. FLOWER ARRANGEMENT	10	The Art of Flower Arranging – (Ian Hall & Sarah Waterkeyn - Smithmark Publications).	1. PPT 2. VIDEO
	2. ERONOMICS IN HOUSEKEEPING	05	Professional Management of Housekeeping Operations – Thomas J. A. Jones – John Wiley & Sons	1. PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.



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HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dipti Dilip Khadpe.** DEPARTMENT: **Room Division Management-II.**

CLASS: **F.Y.BSc.HS.** SEMESTER: **II.**

MONTH: **Academic Year 2022-2023 (December-March)** SUBJECT: **Housekeeping.**

LEARNING OBJECTIVE:
The learners will be able to:

The student will be able to identify the which are the different area in hotels which are cleaned by housekeeping department.
The students will be got to know different types of services and amenities offered by housekeeping.
This semester students will learned about different format used by housekeeping in day-day to operations.
Students will learned about how to handle maids trolley.
The students will be learned about how to handle lost and found, key and control and pest control.
In this semester they will learn how to handle any situation.
The learners will be able to understand organization structure, types of cleaning equipment and agent and surface.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
I	1. CLEANING OF DIFFERENT AREAS	**15**	Hotel Hostel and Hospital Housekeeping – Joan Branson & Margaret Lennox	**1. PPT**
II	1. TYPES OF ROOM SERVICES	**03**	Housekeeping Management – Margaret Kappa, Aleta Nitschken, Patricia B. Schappert – A.H. & L.A.	**1. VIDEO** **2. PPT**
	2. MAIDS SERVICE ROOM / HOUSE KEEPING PANTRY	**04**		**1.VIDEO** **2. PPT**
	3. GUEST ROOM SUPPLIES & AMENITIES	**04**		**1. VIDEO** **2. PPT**

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	4. FORMATS USED IN THE HOUSEKEEPING DEPARTMENT	**04**		**1. PPT**
III	1. LOST & FOUND	**04**	Housekeeping Operations, Design and Management – Malini Singh & Jaya B. George – Jaico Publications	**1.VIDEO** **2. PPT**
	2. KEY & KEY CONTROLS	**02**		**1.VIDEO** **2. PPT**
	3. SITUATION HANDLING	**06**		**1.VIDEO**
	4. PEST CONTROL	**03**		**1. VIDEO** **2. PPT**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45 HOURS.

Dipti D Khadpe

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	5 Parts of Computer • Difference between Hardware & Software • Difference Between Data and Information • Types of Computers – Server (Types), Clients (Types of Portable Computer) • Application Software • System Software • Software Copyright – Freeware, Shareware, Licensed	2		Google classroom White board Quiz Google slide Jam board
	Application Software – Word Processor, Spreadsheet, Database Management, Presentation, Media, Outlook, Browser and Utility Software like Acrobat Reader • System Software – Operating System (Windows, Linux, Android) • Device Driver • Utility Software – VLC Player, File Converter	3		Google classroom White board Quiz Google slide Jam board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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VIVA COLLEGE
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HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2	**Hardware** • Introduction of Central Processing Unit • Processor – Intel, AMD, Clock Speed • Input Devices – Keyboard, Mouse, Mic, Scanner, Barcode Reader, RFID, Touch Screen • Output Devices – Displays (CRT, TFT, LCD, Plasma, LED, Projector) • Display Resolution • Printers – Inkjet, Laser, Thermal • Storage Devices – Primary (RAM & ROM), Secondary (HDD, Flash Drive, USB, CD/DVD, Blue Ray, Media Players)	3		Google classroom White board Quiz Google slide Jam board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 3

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DIPTI DILIP KHADPE** DEPARTMENT: **HOTEL MANAGEMENT** CLASS: F.Y.H.S SEMESTER: I

MONTH: **November to December** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE: To equip the student with the theory inputs with respect to understanding the fundamentals of computers and necessary skills to operate the generic applications and standard operating systems

The learners will be able to: Students will learn required basic knowledge and technical skills in the Information Technology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3	Networking • Types of Network (LAN, WAN, MAN) • Topology (Bus, Star, Ring, Mesh & Tree) • Network Hardware – (Cables – RJ45, RJ11, MTRJ, Switch, Routers, Access Point, Modem) • IP and MAC Address, Subnet, Gateway, DNS • Understanding Network Address & Node Address • Network Security – Firewalls (Hardware & Software) • Bandwidth	4		Google classroom White board Quiz Google slide Jam board
	Internet • Intranet, Internet & Extranet • WWW, HTTP, Domains • VPN & VoIP • Search Engines • ISP & Bandwidth	3		

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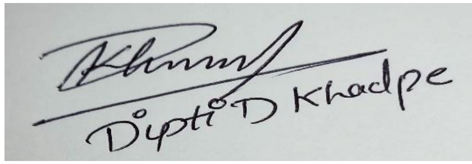
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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HOTEL & TOURISM MANAGEMENT STUDIES

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Savio D'souza** DEPARTMENT:HOTEL MANAGEMENT CLASS: T.Y.H.S SEMESTER: VI

MONTH:NOVEMBER TO APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE: The objective of Organizational Behaviour is to provide students with the opportunity to diagnose Individual and Group Behaviour. · The study of Structure, Motivation & Change helps to develop skills in improving individual and group performance in entrepreneurial and established ventures. · To develop the overall personality and sustain in the dynamic environment

The learners will be able to: .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Computer Fundamentals	**Introduction to Organizational Behaviour** **1.1 Definition of Organizational Behaviour** **1.2 What Managers Do** 1.2.1 Management Functions 1.2.2 Management Roles 1.2.3 Management Skills 1.2.4 Effective v/s Successful Managerial activities **1.3 Disciplines that contribute to the Organizational Behaviour field** **1.4 Individual Behaviour** 1.4.1 Ability 1.4.2 Biographical characteristics 1.4.3 Learning & Process of Learning 1.4.4 Introduction & Importance to Perception, Values & Attitude 1.4.5 Personality & Its Determinants **1.5 Group Behaviour** 1.5.1 Types of Groups	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard • PPT

	1.5.2 The Five stage model (Group Dynamics / Development)			
	Organizational Structure 2.1 What is Organizational Structure 2.1.1 Six Elements of organizational structure 2.2 Organizational Designs 2.2.1 Common Organizational Designs (Simple, Bureaucratic, Matrix)			
	Motivational Concepts 3.1 Define Motivation 3.2 Early Theories of Motivation 3.2.1 Maslow Abraham's Hierarchy of Needs theory 3.2.2 Douglas McGregor's Theory X & Theory Y 3.2.3 Fredrick Herzberg's Two Factor Theory 3.2.4 Mc Cleland's Theory of Needs 3.3 Contemporary Theories of Motivation 3.3.1 Cognitive Evaluation Theory (Definition) 3.3.2 Goal setting Theory (Definition) 3.3.3 Self Efficacy Theory (Definition) 3.3.4 Reinforcement Theory (Definition) 3.3.5 Equity Theory (Definition) 3.3.6 Expectancy Theory (Definition) 3.4 Leadership & Types of Leadership 2.2.2 New Design options (Virtual, Team, Boundaryless)	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Stress Management 4.1 What is Stress? 4.2 Potential Sources of stress			

	4.3 Consequences of Stress 4.4 Managing stress 4.5 Introduction to Quality of Work Life			
	Organizational Change 5.1 What is change? 5.2 Elements / Factors of Change (External & Internal) 5.3 Planned Change 5.4 Resistance to change 5.5 Overcoming Resistance to Change 5.6 Approaches to Managing Organizational change 5.6.1 Lewin's 3 step model 5.6.2 Action Research 5.6.3 Meaning of Organizational Development & Techniques / Intervention 5.7 Introduction to Diversity & Managing Diversity	15	1. Stephen P. Robbins, Timothy A. Judge, Seema Sanghi; (2010); Organizational Behavior; Tenth Edition; Pearson Education Publication 2. Fred Luthans; (2007); Organizational Behavior; Eleventh Edition; McGraw Hill Publication 3. Udai Pareek; (2011); Understanding Organizational Behaviour; Third Edition ; Oxford Publication 4. S S Khanka; (2012); Organizational Behaviour Text & Cases; Fourth Edition ; S Chand & Co. Limited 5. Uma Sekaran; (2004); Organizational Behaviour Text & Cases; Second Edition ; McGraw Hill	• Notes Whiteboard PPT
	Conflict Management 6.1 Definition of Conflict 6.2 Sources & Types of Conflict 6.3 Conflict Management Styles 6.4 Power and Politics 6.4.1 Concept & Basis of Power 6.4.2 Organization Politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pratyasha Pattnaik** DEPARTMENT: Principle of Management – Hotel Management CLASS: FY BSc HS

SEMESTER: II

MONTH: November to March ACADEMIC YEAR: **2022 -2023**

LEARNING OBJECTIVE: To learn about the emerging Indian corporate world and global phenomenon with stress upon hospitality Industry.

The learners will be able to:

- To train the student as future managers and make them understand the working of an organisation.
- Teaching through PowerPoint presentations, case studies, activities, brain storming sessions, SWOT/PEST analysis etc.
- Trying to bridge the gap between management studies and real corporate world through real time stories from newspapers, journals and business magazines, books.
- Encouraging students to read more so as to refine their analytical power and sharpen business sense and become more aware of the business environment.
- Opportunity to participate in business discussions, article/book reviews and presentations

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1	1. INTRODUCTION TO MANAGEMENT 1.1 Evolution of management 1.2 Definitions and Importance of Management 1.3 Management as a Science and Art 1.4 Principles of Management (14 principles of Fayol)	15	Principle of Management – P C Tripathi & Reddy Harold Koontz – Principle of Management	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word

	1.5 Levels of Management and their functions 1.6 Managerial skills 1.7 Functions of Management 1.8 Process of communication 1.9 Business communication 2. PLANNING 2.1 Definition and Characteristics 2.2 Planning Process (Steps in Planning) 2.3 Essentials of a Good Plan 2.4 Vision and mission Statements 2.5 Planning with relation to hospitality industry 2.6 Meaning and Process of MBO 2.7 Meaning and steps in Decision Making			7. White Board 8. Projector 9. Discussion
	3. ORGANIZING 3.1 Meaning and Process of Organizing 3.2 Formal and Informal Organization and Distinction 3.3 Span of control (Meaning and Importance) 3.4 Tall and Flat Organization 3.5 Definition and Process of Delegation 3.6 Centralization and Decentralization of Authority 3.7 Departmentation and Basis of Departmentation 3.8 Organisation chart 3.9 Closed vs open system of organisation 3.10 Line and Staff organization	15	Management Principles and Practices – Dr.M.Sakthivel Murugan	1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

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	4. STAFFING AND COORDINATION 4.1 Meaning and Imporance of Staffing 4.2 Internal and External Sources of Recruitment 4.3 Coordination - As an essence of Management 4.4 Principles of Coordination			
	5. DIRECTING, MOTIVATING AND LEADING 5.1 Meaning and importance of Directing 5.2 Element of Directions / Components 5.3 Definition of Motivation and factors 5.4 Maslow's Need Hierarchy Theory 5.5 Mc Gregor's Theory X and Theroy Y 5.6 Definition of Leadership and Leader 5.7 Qualities of a Leader 5.8 Leadership Styles 5.9 Leaders from hospitality industry 5.10 Leadership theory 6. CONTROLLING 6.1 Meaning 6.2 Steps in Control process 6.3 Types of control:feed forward,feedback,concurrent 6.4 Time Management	15		1. Slides 2. Videos 3. Quiz 4. Power Point Presentation 5. PDF 6. Word 7. White Board 8. Projector 9. Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V MONTH:

JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: INTRODUCE CONCEPT OF VACCINES ,IMMUNOPATHOLOGY AND ITS PERSPECTIVE IN ORGAN TRANSPLANTATION

The learners will be able to : DEVELOP BASIC UNDERSTANDING OF IMMUNOLOGY AND ITS PRACTICAL APPLICATION.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II UNIT IV- APPLIED IMMUNOLOGY	ANTIGEN ANTIBODY REACTION	05	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	ONLINE LECTURE
	VACCINES AND VACCINATIONS	05	KUBY IMMUNOLOGY	PRESENTATION
	TRANSPLANTATION IMMUNOLOGY	05		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc SEMESTER: V MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO FAMILIARIZE CELLULAR ARCHITECTURE AND ITS IMPORTANCE OF TISSUE TO VITAL ORGAN
The learners will be able to : APPRECIATE WELL ORGANIZED TISSUE AND CELL SYSTEM IN BODY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Vishnu Waman Thakur Charitable Trust
Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
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PAPER III UNIT I	VERTICAL SECTION OF SKIN	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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MAMMALIAN HISTOLOGY	V.S OF TOOTH	02	TEXTBOOK OF HISTOLOGY GARTNER ,LESLIE	PRESENTATION
	T.S OF TOUNGE	02		
	T.S OF ALIMENTARY CANAL	05		
	T.S OF ASSOCIATED DIGESTIVE GLANDS	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

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Bhaskar Waman Thakur College of Science
Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: VI MONTH: DECEMBER - APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE CONCEPT OF HOMEOSTASIS – THERMOREGULATION AND OSMOREGULATION. The learners will be able to : SHALL COMPREHENDTHE ADAPTIVE RESPONSES OF ANIMALS TO ENVIRONMENTAL CHANGES FOR SURVIVAL.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II HOMEOSTASIS	HOMEOSTASIS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

	THERMOREGULATION	05		PRESENTATION
	OSMOTIC AND IONIC REGULATION	05		
		03		
		T03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: VI

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MONTH: DECEMBER – APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE LEARNER TO CHEMICAL AND MOLECULAR PROCESSES THAT AFFECT GENETIC MATERIAL
The learners will be able to : RECOGNIZE SIGNIFICANCE OF MOLECULAR BIOLOGY AND DNA REPAIR MECHANISM.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT I MOLECULAR BIOLOGY	TYPES OF MUTATION	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	INDUCED MUTATION	04		PRESENTATION
	DNA REPAIR MECHANISM	03		
	EUKARYOTIC GENE EXPRESSION	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: **ZOOLOGY**
CLASS: **S.Y.B.Sc (ZOOLOGY)** SEMESTER: **III** MONTH: **JULY - OCTOBER** ACADEMIC YEAR: **2022-2023 LEARNING OBJECTIVE/S**: INTRODUCE CLASSICAL EXPERIMENT FOR PROVING DNA AS A GENETIC MATERIAL AND STRUCTURES OF NUCLEIC ACIDS ALONGWITH CENTAL DOGMA THEORY
The learners will be able to : IMPORTANCE OF NUCLEIC ACID AND APPRECIATE GENE REGULATION ACTIVITY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-III, NUCLEIC ACIDS	GENETIC MATERIAL	7	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES GENETICS - GARDNER	POWERPOINT PRESENTATION /ONLINE LECTURES
	FLOW OF GENETIC INFORMATION IN EUKARYOTIC CELL	5		
	GENE EXPRESSION AND REGULATION	3		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS: S.Y,BSc. SEMESTER: IV MONTH: DEC-FEB ACADEMIC YEAR: 2022-2023 LEARNING OBJECTIVE/S: STUDY STRUCTURAL AND FUNCTIONAL ORGANIZATION OF CELL

The learners will be able to : ACQUIRE INSIGHT OF TRANSPORT MECHANISM FOR COMPOSITION AND MAINTAINANCE OF CELL.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II -.U.I	INTRODUCTION TO CELL BIOLOGY	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE

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CELL BIOLOGY			ZOOLOGY	LECTURES
	NUCLEUS	5		
	PLASMA MEMBRANE	4		
	TRANSPORT ACROSS MEMBRANE	2		
	CYTOSKELETAL STRUCTURE	2		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER:V

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Learners will get insights of diagnostic techniques.
The learners will be able to : ___Understand various techniques involved in blood analysis and pathology studies. ___

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied Hematology	Scope of Applied Hematology	1	University textbook. Textbook of Pathology by Godkar	Chalk and Board and PPT
	Microscopic examination of blood: Blood cancer, Infectious disease and Haemoglobinopathies	4		Chalk and Board and PPT
	Coagulopathies	2		Chalk and Board and PPT
	Biochemical examination: liver functions, Kidney functions, Carbohydrate metabolism amd Hormone analysis.	8		Chalk and Board and PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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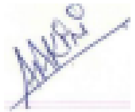

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER: V

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be learning the pathophysiology od various diseases.
The learners will be able to : The learners will be able to understand the root cause of any disease and its precautionary measures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
General Pathology	Introduction	1	University textbook and Textbook on Pathology	Chalk and Board and PPT
	Cell Injury	3		Chalk and Board and PPT
	Retrogressive changes	3		Chalk and Board and PPT
	Disorders of Pigmentation	3		Chalk and Board and PPT
	Necrosis	3		Chalk and Board and PPT Chalk and Board and PPT

	Gangrene	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: F.Y.BSc. SEMESTER: II

MONTH: JANUARY- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will study the impact of stress and infectious disease.
The learners will be able to : The learners will be able to understand stress related problem and develop a strong mind set. They will understand the causes of infectious diseases and its precautionary measures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Stress related disorder: Diabeters, BP, Anxiety, Insomania	6	University Textbook	Chalk and Board and PPT

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Common	Communicable and Non-Communicable disorders: TB, Typhoid, Hepatitis A and B, AIDS, Gonorreah, Asthama, Bronchitis, Oral Cancer.	9	Textbook on Pathology	Chalk and Board and PPT
Diseases				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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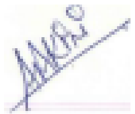

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: S.Y.BSC. SEMESTER: IV MONTH: _NOVEMBER-MARCH ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S: The learners will study the ultrastructure of cell organelles.
The learners will be able to : The lerners will be able to understand the intricate and complex functioning of the cell.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

	Introduction to Endomembrane system	1		Chalk and Board and PPT
	Endoplamic Reticulum: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT
ENDO MEMBRANE	Golgi Complex: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT
SYSTEMS	Lysosomes: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT

Mitochondria: Origin, Occurrence, Morphology and Functions.Marker Enzymes, Biogenesis Semiautonous nature of Mitochondria

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Chalk and Board and PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER: VI

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will study the various aspects oif Enzyme Biochemistry.
The learners will be able to : The learners will be able to understand the structure and functions and kinetics of Enzymes.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ENZYMOLOGY	Introduction and Nomemclature	2	Biochemistry by Leininger	Chalk and Board and PPT
	Enzyme action and Kinectics	5	Biochemistry by Satyanarayana	Chalk and Board and PPT
	Enzyme Inhibition	3	University Textbook	Chalk and Board and PPT
	Regulation of Enzyme Activity	3		
	Industrial Applications of Enzymes	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: SEMESTER:
___6___________ MONTH: _NOVEMBER-MARCH ACADEMIC YEAR: 2022-23

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LEARNING OBJECTIVE/S: The learners will study various aspects of Genetic Disorders
The learners will be able to : The learners will be aware about the impact and changes that takes at gene level.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HUMAN GENETICS	Non- Disjunction during Mitosis and Meiosis	7	Diagnostic Regcognition of Genetic Disorders.	Chalk and Board and PPT
	Genetic Disorders	5		Chalk and Board and PPT Karyotypes
	Diagnosis	3		Chalk and Board and PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY **DEPARTMENT**: ZOOLOGY CLASS: __FYBSC SEMESTER: I MONTH: July

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To know about the Hoarded wealth of the marvelous animal world and thereby enhance their interest and knowledge in the subject of zoology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	Echolocation in bats and cetaceans; Mechanism of pearl formation in Mollusca.	3	University Text book for FYBSc.	Power point presentation
	Bioluminiscence in animals; Regeneration in animals	3	University Text book for FYBSc.	Power point presentation
	Mimicry in butterfly and its significance; mechanism of coral formation.	3	University Text book for FYBSc.	Power point presentation
	Bird Migration; adaptive features of desert animals	3	University Text book for FYBSc.	Power point presentation
	Breeding and parental care in Pisces and Amphibians	3	University Text book for FYBSc.	Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: __FYBSC SEMESTER: II MONTH: November

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : _______Understand the current status of wildlife in India from different relevant governing agencies vis-a vis with adversity of poaching and biopiracy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-3	Concept of endangered and criticaly endangered species using examples of Indian wildlife with respect to national parks and wildlife sanctuaries of India.	5		Power point presentation
	Management statergies with special respect to Tiger and Rhinoceros in India.	4		Power point presentation
	Ecotourism	3		Chalk and board method/ Power point presentation
	Biopiracy	3		Chalk and board method/ Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY   DEPARTMENT: ZOOLOGY   CLASS: __SYBSC   SEMESTER: III   MONTH: July

ACADEMIC YEAR: _2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to : Know how animals interact with each other and their surroundings and they will be able to understand different behavioral patterns

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3, UNIT-1	Introduction to Ethology	4		Chalk and board method/ Power point presentation
	Aspects of animal behaviour	6		Chalk and board method /Power point presentation
	Social behaviour	5		Chalk and board method/ Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: SYBSC SEMESTER: IV MONTH: November

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Get a panoramic view of the impact of human activities leading to pollution and its implication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3, UNIT-1	Air pollution	3		Chalk and board method
	Water pollution	3		Chalk and board method
	Soil pollution	3		Chalk and board method
	Noise pollution	1		Chalk and board method
	Radioactive pollution	1		Chalk and board method
	Solid waste pollution	2		Chalk and board method
	Pollution Climate change and global warming	2		Chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY   DEPARTMENT: ZOOLOGY   CLASS: __TYBSC   SEMESTER: V   MONTH: July

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S:
The learners will be able to apprehend the basis of classification and modern classification up to the class of lower invertebrate animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	Levels of organization	03		Chalk and board method
	Symmetry	02		Chalk and board method
	Coelom and metamerism	02		Chalk and board method
	Taxonomy	04		Chalk and board method/Powerpoint presentation
	Kingdom Protista	04		Chalk and board method/Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: V MONTH: July

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to understand the various types of epidermal and dermal derivatives along with their function.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV, UNIT-1	Basic structure of integument	03		Chalk and board method/ Powerpoint presentation
	Epidermal derivatives of vertebrates	04		Chalk and board method/ Powerpoint presentation
	Dermal derivatives of vertebrates	04		Chalk and board method /Powerpoint presentation
	Special derivatives of integument	04		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: VI MONTH: NOVEMBER

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S To introduce basic concepts of modern Chordate classification with evolution point of view and to understand the concept of taxonomy in higher animal kingdom.
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	General characters,difference between non chordates and chordates, Origin of chordates.	5		Chalk and board method
	Protochordata	5		Chalk and board method
	Group Euchordata	5		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: VI MONTH: NOVEMBER

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S: To introduce learners to zoogeographic distribution(present and past) of animal species.
To introduce learners to various ways of animal distribution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV, UNIT-IV	Introduction:Plate tectonics and continental drift theory.	4		Chalk and board method
	Animal distribution and barriers	5		Chalk and board method/ Powerpoint presentation
	Zoogeographical realms	6		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap.
The learners will be able to: Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT I- Laboratory safety, Units and Measurement	INTRODUCTION TO GOOD LABORATORY PRACTICES	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	USE OF SAFETY SYMBOLS	03		PRESENTATION
	UNITS OF MEASUREMENT	09		CHALK AND BOARD

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : To Introduce basic terms of genetics & to study Mendelian principles of inheritance and other forms pattern of inheritance.

The learners will be able to : Understand and apply the principles of inheritance. Understand the concept of multiple alleles, linkage and crossing over

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER I UNIT I- FUNDAMENTALS OF GENETICS	Introduction to genetics	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	Mendelian Genetics	08		CHALK AND BOARD
	Multiple Alleles and Multiple Genes	03		CHALK AND BOARD
	Linkage and Crossing Over	02		CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
To introduce the topic of immunology by emphasizing the basic concepts to build a strong foundation and to give an overview of the immune system that plays an important

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role in disease resistance.
The learners will be able to : *The learner shall comprehend the types of immunity and the components of immune system. The learner will realize the significant role of immune system in giving resistance against diseases.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III- BASIC IMMUNOLOGY	Overview of Immunology	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	Cells and Organs of immune system	04		PRESENTATION
	Antigens	04		PRESENTATION
	Antibodies	04		CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: II MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
TO FACILITATE THE LEARNING OF POPULATION ECOLOGY,ITS DYNAMICS AND REGULATORY FACTORS IMPORTANT FOR ITS SUSTENANCE
The learners will be able to : THE UNIT WOULD ALLOW LEARNERS TO STUDY ABOUT NATURE OF ANIMAL POPULATION ,SPECIFIC FACTORS

AFFECTING ITS GROWTH AND ITS IMPACT ON THE POPULATION OF OTHER LIFE FORMS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To develop the learner's knowledge and understanding of genetic variability within a population and how the change in the gene pool leads to evolution of species.

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : The learner shall understand the types and secretions of endocrine glands and their functions and their disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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NAME OF THE STAFF: DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Learner will understand the paradigms of discovery and commercialization of biological resources and knowledge gained by self-medication by animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL RAMESH DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **V** MONTH: **JUNE** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to : To sensitize learner regarding the various threats to the wildlife. To introduce learner various way that can help in the protection, conservation, management and enhancement of wildlife populations and habitat.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II -WILDLIFE MANAGEMENT	2.1 HABIT, HABITAT, TERRITORY AND NICHE OF WILD ANIMALS	03	UNIVERSITY TEXTBOOK	PRESENTATION
	2.2 THREATS TO WILDLIFE	05		CHALK AND DUSTER
	2.3 WILDLIFE CONSERVATION	07		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **S.Y,BSc.** SEMESTER: **IV** MONTH: **NOV** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: TO INTRODUCE THEM WITH THE BASIC KNOWLEDGE OF RESEARCH, SCIENTIFIC WRITING AND IT'S METHODOLOGY

The learners will be able to : UNDERSTAND THE WAYS AND METHODS OF WRITING A RESEARCH PAPER, TYPES OF RESEARCH AND THE ETHICS RELATED TO SCIENTFIC RESEARCH AND ITS WRITING

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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P-I.U.III RESEARCH METHODOLGY AND SCIENTIC WRITING	RESEARCH, DEDUCTIVE REASONING.INDUCTIVE REASONING	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
	TYPES OF RESEARCH ,7C'S RULE,RESEARCH METHODOLOGY	3		THESIS AND ABSTRACT FOR REFERNCE
	SCIENTIFIC WRITING. TYPES OF WRITING ABSTRACT WRITING,MONOGRAPH,REVIEW WRITING,POSTER PRESENTATION	4		POSTER AND PRESENTATIONS FOR REFERNCE
	BIBLIOGRAPHY ,TYPES OF PRESENTATION, USE OF COMPTER IN RESEARCH	3		
	PLAGIARISM.ETHICS IN RESEARCH	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **F.Y,BSc.** SEMESTER: **II** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: TO EXPLAIN THE COMPONENTS OF ECOSYSTEM AND HOW ECOSYSTEM IS ESSENTIAL FOR SURVIVAL OF ANIMALS

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The learners will be able to : UNDERSTAND THE IMPORTANCE OF ECOSYSTEMAND VARIOUS FAUNA BEING EXTINCT BECAUSE OF INTERUPTING OF HUMAN BEING

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III COMMON HUMAN DISEASE		2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
		4		PRESENTATION
		4		
		2		
		3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _**SONAL RAMESH DANDGE** DEPARTMENT: **ZOOLOGY** CLASS: **T.Y.Bsc** SEMESTER: **VI** MONTH: **APRIL-MAY**

ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: TO INTRODUCE THE LEARNER VARIOUS NATURAL RSOURCES ,THEIR EXPLOITATION AND HOW GOVERNMENT PLAYS AN IMPORTANT ROLE TO IMPLIMENT VAROIUS LAWS
The learners will be able to : UNDERSTAND DIFFERENT FACTORS AFFECTING ENVIRONMENT AND NEED TO UNDERSTAND VAROIUS LAWS ANGAINST GOVERONMENT FOR EXPLOITATION.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
APPLIED COMPONENT	NATURAL RESOURCES AND THEIR CLASSIFICATION	2	ENVIRONMENTAL BIOLOGY BY P.S. VERMA	CHALK AND DUSTER PRESENTATION
	EXPLOITATION AND MODIFICATION OF NATURAL RESOURCES	2		
	SUSTAINABLE DEVELOPMENT	3	UNIVERSITY TB FOR COURSE BY BOARD OF	

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			STUDIES ZOOLOGY	
	WASTE MANAGEMENT, WATER MANAGEMENT	4		
	LAWS GOVERNING ENVIRONMENT	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT- 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY** CLASS: **S.Y.B.sc** SEMESTER: **III** MONTH: **DEC-FEB**

ACADEMIC YEAR:**2022-2023**

LEARNING OBJECTIVE/S: TO INTRODUCE CONCEPT OF PARASITISM , MODES OF TRANSMISSION OF PARASITES AND PRECAUTIONS TO PREVENT DISEASES
The learners will be able to : _TO UNDERSTAND VARIOUS PARASITES, THEIR LIFE CYCLE, THE SYMPTOMS OF THE DISEASE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER 3, UNIT II PARASITOLOGY	INTRODUCTION TO PARASITOLOGY AND TYPES OF PARASITES	2	PARASITOLOGY BY SHARMA	CHALK AND DUSTER PRESENTATION
	HOST PARASITE RELATIONSHIP, HOST SPECIFICITY	3	PARASITOLOGY BY CHATTERJEE .K.D	
	LIFE CYCLE, PATHOGENECITY, CONTROL MEASURES AND TREATMENT OF THE FOLLOWING PARASITES Entamoeba histolytica, Faciola hepatica, Taenia solium, Wucheria bancrofti	4	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	
	MORPHOLOGY,LIFE CYCLE, PATHOGENECITY,CONTROL MEASURES AND TREATMENT OF THE FOLLOWING PARASITES HEAD LOUSE, MITE, BED BUG	3		
	PARASITOLOGICAL SIGNIFICANCE	3		

TOTAL NUMBER OF LECTUES ALLOCATED TO THE UNI

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To orient learner about rich heritage of Biodiversity of India and make understand significance of its conservation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II BIODIVERSITY AND ITS CONSERVATION	INTRODUCTION AND LEVELS TO BIODIVERSITY	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	BIODIVERSITY HOTSPOT	03	BIODIVERSITY – S.CHAND PUBLICATION	PRESENTATION
	VALUES OF BIODIVERSITY	03		
	THREATS OF BIODIVERSITY	03		
	CONSERVATION AND ITS MANAGEMENT	03		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the concepts of physiology of nutrition, excretion and osmoregulation. To expose the learners to various nutrition apparatus, excretory and osmoregulatory struct

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPERII UNIT I NUTRITION AND EXCRETION	EXCRETION APPARATUS ,PHYSIOLOGY	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	PROCESS AND COMPARATIVE STUDY	03		PRESENTATION
	NUTRITION TYPES AND PROCESS	04		CHARTS
	COMPARATIVE STUDY	03		

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	PHYSIOLOGY	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To acquaint learners with the details of Sepia as a representative of invertebrate animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT IV TYPE STUDY SEPIA	GENERAL CHARACTERISTICS AND CLASSIFICATION	02	INVERTEBRATE BY KOTPAL	CHALK AND BOARD

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	DIGESTIVE SYSYTEM ,REPRODUCTIVE SYSTEM	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	EXCRETORY SYSTEM	03		CHARTS
	NERVOUS SYSTEM	02		
	CIRCULATORY SYSTEM	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: II MONTH: NOV ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S:

The learners will be able to : Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III COMMON HUMAN DISEASE	STRESS RELATED DISORDER – SYMPTOMS, EFFECTS,CAUSES, PREVENTION,REMEDY	07	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	COMMUNICABLE AND NON COMMUNICABLE DISEASE – SYMPTOMS, EFFECTS,CAUSES, PREVENTION,REMEDY	07		PRESENTATION
				CHARTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To develop learner's knowledge and understanding of genetic variability within a population and how the change in the gene pool leads to evolution of species.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPERII- POPULATION GENETICS AND EVOLUTION	INTRODUCTION TO POPULATION GENETICS,BRIEF EXPLANATION OF TERM OF GENETICS	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	HARDY WEINBERG LAW,FACTORS AFFECTING LAW	04		PRESENTATION
	PATTERN OF NATURAL SELECTION	04		CHARTS
	SPECIES CONCEPT AND SPECIEATION AND ISOLATION MECHANISM	03		

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	EVOLUTIONARY GENETICS	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce to the learner the details of endocrine glands and its disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III ENDOCRINOLOGY	INTRODUCTION TO ENDOCRINOLOGY AND TYPES OF GLANDS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	ENDOCRINE SYSTEM,AND ITS MECHANISM	02	TEXTBOOK OF ENDOCRINOLOGY – WILLIAMS	PRESENTATION
	CLASSIFICATION AND PROPERTIES OF HORMONE, MECHANISM OF HORMONES ACTION	04		CHARTS

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	HISTOLOGY,FUNCTIONS AND DISORDERS OF PITUITARY,THYROID	04		
	PARATHYROID,PANCREAS AND ADRENAL	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the learner to the concepts of bioprospecting and zoopharmacognosy. To introduce learner with various ethological aspects by which non-human animals
apparently self-medicate themselves.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV UNIT III BIOPROSPECTING AND ZOOPHARMACOGNOSY		03	UNIVERSITY TEXTBOOK BY	

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	INTRODUCTION TO BIOPROSPECTING		BOARD OF STUDIES	
	TYPES OF BIOPROSPECTING	03		PRESENTATION
	CONSERVATION – ADVANTAGE AND DISADVANTAGE , INTRODUCTION TO ZOOPHARMACOGNOSY	03		CASE STUDIES
	SELF MEDICATION AND ITS MECHANISM	03		
	APPLICATION AND ITS CONTRIBUTION	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:F.Y.B.Sc SEMESTER: I MONTH: SEPTEMBER- JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO AQUAINT LEARNERS TO STUDY THE MODERN DEVELOPMENT IN FIELD OF ZOOLOGY WITH RESPECT TO ITS APPLICATION FOR BENEFITS TO HUMAN AND WORLD

The learners will be able to : HELP YOUNG MINDS THINK OUT OF THE BOX WITH RESPECT TO NEW DEVELOPMENT BENIFITING THE HUMANS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II- ANIMAL BIOTECHNOLOGY	INTRODUCTION TO BIOTECHNOLOGY , SCOPE AND ACHIEVEMENTS	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	TRANSGENESIS,CLONING	04	BIOTECHNOLOGY– SATYANARAYAN & CHAKRAPANI	PRESENTATION
	ETHICAL ISSUES	03		
	DNA FINGERPRINTING AND GENE THERAPY	04		
	GREEN GENES	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc SEMESTER: III

MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO UNDERSTAND THE BASICS OF GENETICS WITH RESPECT TO SEX DETERMINATION AND ITS PURPOSE
The learners will be able to : TO CORRELATE WITH THE GENETIC DISORDER WITH THE STRUCTURE OF CHROMOSOME,NUMBER OF CHROMOSOME AND SEX DETERMINATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- CHROMOSOME AND HEREDITY	TYPES , STRUCTURE AND CLASSIFICATION OF CHROMOSOMES	04	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	SEX DETERMINATION – HORMONAL ,TEMPERATURE AND CHROMOSOMAL	04	GENETICS - FAIRBANK	PRESENTATION
	SEX LINKED INHEITANCE	02	GENTEICS – MANGE AND MANGE	

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	SEX LIMITED INHERITANCE	02		
	SEX INFLUENCED INHERITANCE	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V

MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO COMPREHEND THE GENERAL CHARACTERS AND CLASSIFICATION OF KINGDOM ANIMALIAE FROM PORIFERA TO NEMATODA AND SPECIFIC CHARACTERS OF ORGANISMS BELONGING TON THESE PHYLA
The learners will be able to : FAMILIARIZING WITH CLASSIFICATION AND ABLE TO IDENTIFY ANIMAL IN HABITAT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- KINGDOM ANIMALIA I	GENERAL CHARARCTERS	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES INVERTEBRATE ZOOLOGY – R.L.KOTPAL	POWERPOINT PRESENTATION /ONLINE LECTURES
	PHYLUM PORIFERA – CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		PRESENTATION

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	PHYLUM CNIDARIA CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		LIVE ANIMALS
	PHYLUM PLATYHELMINTHES CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		
	PHYLUM NEMATODA CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE PRINCIPLE OF TOXICOLOGY WITH RESPECT TO TOXIC RESPONSE ,NATURE AND ITS EFFECTS IN TOXICITY TESTING AND ITS REGULATORY AFFAIRS

The learners will be able to : BROAD UNDERSTANDING IN THE FIELD HELPING STUDENT PREPARE FOR EMPLOYMENT IN PHARMACEUTICAL INDUSTRY AND RELATED ARENAS.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER III UNIT II- TOXICOLOGY	INTRODUCTION,PRINCIPLE AND SCOPE TO TOXICOLOGY ,	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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	TOXINS AND TOXICANTS , CONCEPT OF LC50,LD50,ED50	04	FUNDAMENTALS OF TOXICOLOGY – KAMLESHWAR PANDEY & J .P.SHUKLA	PRESENTATION
	CHARACTERS OF EXPOSURE	02		
	TYPES AND ROUTES OF TOXICITY	04		
	DOSE RESPONE RELATIONSHIP AND TARGET ORGAN TOXICITY	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **BHUMIKA ASHOK OZA** DEPARTMENT: **ZOOLOGY**
CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **VI** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**
LEARNING OBJECTIVE/S: TO INTRODUCE THEM WITH CHORDATE CLASSIFICATION WITH POINT OF EVOLUTION AND UNDERSTAND THE CONCEPT OF TAXONOMY.
The learners will be able to : UNDERSTAND PHYLOGENY AND SPECIAL FEATURES ALONGWITH TAXONOMY UPTO CLASS OF CHORDATES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-II, GROUP EUCHORDATA II	DIVISION GNATHOSTOMATA	3	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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	DIPNOI	5	CHORDATES BY JORDAN AND VERMA	LIVE ANIMALS
	SUPERCLASS TETRAPODA	5	CHORDATE ZOOLOGY BY R.L.KOTPAL	PHOTOGRAPHS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA OZA DEPARTMENT: ZOOLOGY
CLASS: S.Y,BSc. SEMESTER: IV MONTH: DEC-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: TO IMPART SCIENTIFIC KNOWLEDGE TO THE LEARNERS ABOUT HOW LIFE ORIGINATED AND EVOLVED ON OUR PLANET
The learners will be able to : GAIN INSIGHT ABOUT ORIGIN OF LIFE AND ITS DIFFERENT THEORIES.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I.U.I ORIGIN AND EVOLUTION OF LIFE	INTRODUCTION THEORY FOR ORIGIN OF LIFE	3	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY BBC WORLD FACTS AND DISCOVERY VIDEOS	ONLINE LECTURES
	EVIDENCES IN NFAVOUR OF ORGANIC EVOLUTION	5		YOU TUBE VIDEOS
	THEORIES OF ORGANIC EVOLUTION	5		POSTER AND PRESENTATIONS FOR REFERNCE
				DISCOVERY PLUS SERIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA OZA DEPARTMENT: ZOOLOGY
CLASS: F.Y,BSc. SEMESTER: II MONTH: FEB – APRIL ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: TO EXPLAIN THE SOURCE AND IMPORTANCE OF HEALTHY MIND, BODY AND DIETARY HABITS.
The learners will be able to: UNDERSTAND THE IMPORTANCE OF GOOD DIETARY HABITS AND LEAD A HEALTHY LIFESTYLE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, HUMAN HEALTH AND DISEASE	BALANCED DIET AND NUTRITION AND DIET CHART	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
	MALNUTRITION DISORDERS – CAUSES,SYMPTOMS,PRECAUTION AND REMEDIES	5		BMI STUDY BY ASSIGNMENT AND PROJECT
	LIFESTYLE DISORDERS- CAUSES, SYMPTOMS, PRECAUTION AND REMEDIES	5		
	SIGNIFICANCE OF BREAST FEEDING AND BREASTMILK,DIETARY FIBRES	2		

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	BMI	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **BHUMIKA ASHOK OZA** DEPARTMENT: **ZOOLOGY**
CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **VI** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**
LEARNING OBJECTIVE/S: UNDERSTAND DIFFERENT FACTORS AFFECTING THE ENVIRONMENT AND VARIOUS METHODS TO IMPROVE ENVIRONMENTAL STEWARDSHIP
The learners will be able to :UNDERSTAND DIFFERENT IMAPCT ,FACTOTRS AND LAWS REGARDING ENVIRONMENT

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

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P-IV ,U-I, ENVIRONMENT MANAGEMENT	NATURAL RESOURCES AND THEIR CLASSIFICATION	3	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY CSIR REFERENCE BOOK- PATHFINDER ENVIRONMENTAL SCIENCE BY THAKUR INDUSHEKHAR AND S CHAND PUBLICATION	POWERPOINT PRESENTATION /ONLINE LECTURES
	EXPLOITATION AND MODIFICATION OF NATURAL RESOURCES	4		YOUTUBE VIDEOS
	WATER MANAGEMENT	2		NEWSPAPER CASE STUDIES
	WASTE MANAGEMENT	4		
	ACTS AND RULES OF ENVIRONMENTAL MANAGEMENT	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____DEPARTMENT: ________________________ CLASS: ________________SEMESTER: _____________MONTH: _______________ ACADEMIC YEAR:__________________
LEARNING OBJECTIVE/S:
The learners will be able to :
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc, SEMESTER: 5

MONTH: JUNE- OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To introduce the learner to the basics of developmental biology with reference to chick as a model and also familiarize with experiments related to it.*

The learners will be able to :*Learner will be able to understand the processes involved in embryonic development and practical applications of studying the chick embryology.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:4 UNIT:4 TITLE:Developmental biology of Chick	Introduction to Developmental Biology:	1	DEVELOPMENTAL BIOLOGY BY GILBERT	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	Structure of Hen's egg, physico-chemical nature and forms of yolk- granular, platelets and spheres; fertilization, cleavage, blastulation, gastrulation	3	DEVELOPMENTAL BIOLOGY OF CHICK BY PATTEN	2)Teaching resources: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Structure of chick embryo – 18 hou rs, 24 hou rs, 33 hou rs, 48 hou rs and 72 hou rs	8	CHORDATE ZOOLOGY BY JORDAN	
	Extra embryonic membranes	2		
	Organizer: Introduction, Spemann Mangold experiment, Hensen's node as an organizer	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SHWETA SURESH SHAHASANE DEPARTMENT: Zoology

CLASS: :F.Y.B.Sc. SEMESTER: 1 MONTH: JUNE -OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap*

The learners will be able to : *Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:2 UNIT:1 TITLE: INSTRUMENTATION	**Introduction to good laboratory practices**	1	Methods in Biostatistics – B. K. Mahajan	1)Teaching methods:Questions, Peer learning by making buzz groups of students,role play,debate,case-study,problem solving and decision making strategy
	Use of safety symbols : meaning, types of hazards and precautions	2	A Manual of Medical Laboratory Technology -A. H. Patel	2) learning resources: textbook,pictures and A.V. , Internet.
	Calculations and related conversions of each: Metric system- length(meter to micrometer); weight (gram to microgram), Volumetric (Cubic measures)	1	Calculations in Molecular biology and Biotechnology - Frank H. S tephenson	

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	Temperature: Celsius, Fahrenheit, Kelvin	1	Text Book of Zoology, F.Y.B.Sc. Semester I Course 2	
	Concentrations : Percent solutions, ppt, ppm, ppb dilutions,Normality, Molarity and Molality.	2		
	Biostatistics: Introduction and scope, Sampling and its types, Central Tendencies (mean, median, mode) Tabulation, Graphical representations (Histograms, bar diagrams, pie diagrams)	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY

CLASS:F.Y. B. Sc. SEMESTER: 2 MONTH:December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To impart knowledge of different components of ecosystem and educate about essentials of coexistence of human beings with all other living organisms*

The learners will be able to : *Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna*

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:Ecology and Wildlife Management. Unit: 2 TITLE: Ecosystem	Ecosystem - Definition and components	2	Fundamentals of Ecology - Eugene P. Odum	1)Teaching methods:Questions, Peer learning by making buzz groups of students,role play,debate,case-study,problem solving and decision making strategy.
	Biogeochemical cycles (Water, Oxygen, Nitrogen, Sulphur)	2	Fundamentals of Ecology - M. C. Dash	2) learning resources: textbook,,A.V. program, Internet,POWERPOINT PRESENTATION, YOUTUBE VIDEOS.
	Fresh water ecosystem – Lentic and Lotic	2	Ecology - Mohan P. Arora	
	Food chain and food web in ecosystem (Fresh water and Grass land)	3	Ecology and Environment - Sharma P. D	
	Ecological pyramids - energy, biomass and number	2	Ecology : Principles and Applications - Chapman J.L	
	Animal interactions (commensalism, mutualism, predation, antibiosis, parasitism)	3	Ecology - Subramaniam	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc

SEMESTER:3 MONTH: JUNE- OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To disseminate information on economic aspects of zoology like apiculture, vermiculture, dairy science. To encourage young learners for selfemployment.*

The learners will be able to : *Learners would gain knowledge on animals useful to mankind and the means to make the most of it. Learners would learn the modern techniques in animal husbandry. Learners would be pursuing entrepreneurship as careers*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER:3 UNIT:3 TITLE:Economic Zoology	**APICULTURE:Methods of bee keeping and management** **Economic importance**	5	Economic Zoology- Biostatistics and Animal behaviour	1)<u>TEACHING METODS</u> : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	VERMICULTURE:Rearing methods, management and economic importance	4	Economic Zoology- Shukla G.S	2)<u>Teaching resources</u>: LIVE SPECIMEN , A.V., TEXTBOOK , MANNUALS, INTERNET , PICTURES, CHARTS, POWER POINT PRESENTATIONS AND YOUTUBE VIDEOS .ONLINE WORSHOPS
	DAIRY SCIENCE:Dairy development in India **Dairy Processing** **Milk and milk products**	6	A handbook on Economic Zoology, S.Chand	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE _ DEPARTMENT: ZOOLOGY CLASS: S.Y.B.Sc. SEMESTER: IV

MONTH: DECEMBER TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : acquaint the key concept of embryology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:Comparative Embryology ,Aspect of Human Reproduction, Pollution and its effect on organisms UNIT:1 TITLE:Comparative Embryology.	1)Types of Eggs-Based on amount and distribution of yolk.	2	1)Developmental Biology by Gilbert.	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	2)structure and types of sperms	1	2)Developmental Biology by Berri and Tata Mc Craw.	2)Teaching resources: Clay models , A.V., PowerPoint presentations
	3)Types of cleavage- Holoblastic and Meroblastic	1	3)Chick Embryology by Pattern	
	4)Types of blastulae	1	4)Chordate Embryology by Verma and Tyagi.	

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	5)Gastrulation	2	5)Chordate Zoology by Jordan	
	6)Coelom -formation and types	2		
	7)Extra embryonic membranes	6		
	8)Types of placentae -Based on histology,morphology and implantation.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc,

SEMESTER: 5 MONTH: JUNE- OCTOBER ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S: *To introduce the learner to the basics of developmental biology with reference to chick as a model and also familiarize with experiments related to it.*

The learners will be able to :*Learner will be able to understand the processes involved in embryonic development and practical applications of studying the chick embryology.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:4 UNIT:4 TITLE:Developmental biology of Chick	Introduction to Developmental Biology:	1	DEVELOPMENTAL BIOLOGY BY GILBERT	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method

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	Structure of Hen's egg, physico-chemical nature and forms of yolk-granular, platelets and spheres; fertilization, cleavage, blastulation, gastrulation	3	DEVELOPMENTAL BIOLOGY OF CHICK BY PATTEN	2)<u>Teaching resources</u>: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Structure of chick embryo – 18 hou rs, 24 hou rs, 33 hou rs, 48 hou rs and 72 hou rs	8	CHORDATE ZOOLOGY BY JORDAN	
	Extra embryonic membranes	2		
	Organizer: Introduction, Spemann Mangold experiment, Hensen's node as an organizer	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc,

SEMESTER: 6 MONTH: DECEMBER- MARCH ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S: To acquire knowledge of the various aspects of diseases affecting fishes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER: applied component UNIT:4 TITLE: Diseases	Viral diseases, prophylaxis and preventive measures	5L	Text Book of Fish Biology and Indian Fisheries by Dr. R. P. Parihar, Central Pub. House, Allahabad.	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	Bacterial, fungal, protozoan infections and treatment	5L	Handbook of Fish Biology and Fisheries Edited By J.B. Hart and John Reynold.	2)Teaching resources: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Crustacean infections and treatment Physiological disorders (Dropsy) / diseases and treatment	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the learner to the science of dairy. To make the learner aware about care of different pet animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III UNIT III APPLIED ZOOLOGY - (DAIRY SCIENCE)	3.2 DAIRY SCIENCE	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	3.2.1 ROLE OF DAIRY DEVELOPEMENT IN RURAL ECONOMY	01		PRESENTATION
	3.2.2 MILK AND MILK PRODUCTS	03		PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
To introduce the learner to different bones of human skeleton and their functional importance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II HUMAN OSTEOLOGY	2.1 INTRODUCTION	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES,	PRESENTATION
	2.2 AXIAL SKELETON	06		PRESENTATION
		06		PRESENTATION

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	2.3 APPENDICULAR SKELETON		TEXT BOOK OF HUMAN ANATOMY BY TORTORA	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: Learner shall comprehend boat building techniques and design of engines used in mechanized boats. Learner shall understand the operations of various types of nets and fishing method.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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AC UNIT - II	2.1 Basic boat building	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES, TEXT BOOK OF CRAFTS AND GEAR	PRESENTATION
	2.2 Basic studies of marine engines: Sectional View of 2-stroke and 4-stroke Diesel engines Winch and Deck Side Equipment	06		PRESENTATION
	2.3 Operations: Gill, Trawl, Purse seine Nets Hooks and Lines Non-conventional Fishing Methods	06		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR:2022-2023 _

LEARNING OBJECTIVE/S:
The learners will be able to : To give learner insight into the structure of biomolecules, and their role in sustenance of life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT - III -BIOMOLECULES	3.1 BIOMOLECULES	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	3.2 CARBOHYDRATES	04		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:
The learners will be able to : To sensitize learner regarding the various threats to the wildlife. To introduce learner various way that can help in the protection, conservation, management and enhancement of wildlife populations and habitat.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II -WILDLIFE MANAGEMENT	2.1 HABIT, HABITAT, TERRITORY AND NICHE OF WILD ANIMALS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	2.2 THREATS TO WILDLIFE	05		PRESENTATION
	2.3 WILDLIFE CONSERVATION	07		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE, Virar (W)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:
The learners will be able to: Learners will acquire the knowledge and would put in to practice the preservation and processing techniques for commercial ventures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
AC UNIT - V Unit 5: PRESERVATION AND PROCESSING	5.1 Traditional methods and their modifications: i) Icing ii) Drying iii) Salting	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES Fish Biology by C.B.C. Srivastava –	PRESENTATION
	5.2 Introduction to refrigeration: Types and properties of refrigerants	05		PRESENTATION

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	5.3 Principle and steps involved in can reform and canning of fish	04	Narendra Pub. House.	PRESENTATION
	5.4 Equipment and utensils used in seafood processing	03		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO ORIENT LEARNERS ABOUT RICH HERITAGE OF BIODIVERSITY OF INDIA MAKE THEM UNDERSTAND SIGNIFICANCE OF ITS CONSERVATION.
The learners will be able to : LEARNERS WOULD APPRECIATE TREASURE OF BIODIVERSITY, ITS IMPORTANCE AND HENCE WOULD CONTRIBUTE THEIR BEST FOR ITS CONSERVATION.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- BIODIVERSITY AND ITS CONSERVATION	INTRODUCTION TO BIODIVERSITY	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	LEVEL OF BIODIVERSITY	03	BIODIVERSITY- K.C AGARWAL	CHALK AND BOARD
	INTRODUCTION OF BIODIVERSITY HOTSPOTS	03		
	VALUE OF BIODIVERSITY	02		

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	THREATS TO BIODIVERSITY	03	FUNDAMENTALS OF WILDLIFE MANAGEMENT- RAJESH GOPAL	
	BIODIVERSITY CONSERVATION AND MANAGEMENT	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO COMPREHEND THE GENERAL CHARACTERS AND CLASSIFICATION OF KINGDOM ANIMALIA FROM PORIFERA TO NEMATODA AND SPECIFIC CHARACTERS OF ORGANISMS BELONGING TO THESE PHYLA.
DESIRED OUTCOME:
THE LEARNERS WILL BE FAMILIARIZED WITH CLASSIFICATION UP TO PHYLUM NEMATODA ALONG WITH THEIR EXAMPLES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- KINGDOM ANIMALIA I	INTRODUCTION	01	UNIVERSITY TEXTBOOK BY	POWERPOINT PRESENTATION

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			BOARD OF STUDIES	
	PHYLUM: PORIFERA	03	INVERTEBRATE ZOOLOGY- JORDAN & VERMA	CHALK AND BOARD
	PHYLUM: CNIDARIA	04		
	PHYLUM: PLATYHELMINTHES	04		
	PHYLUM: NEMATODA	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V APPLIED COMPONENTS MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S: TO ACQUIRE KNOWLEDGE OF VARIOUS BREEDING TECHNIQUES HATCHERY AND NURSERY MANAGEMENT OF VARIOUS CARPS

DESIRED OUTCOME: LEARNERS WILL UNDERSTAND BREEDING TECHNIQUES AND SKILLS NECESSARY FOR CULTURING OF MAJOR CARPS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III: FARMING OF MAJOR CARPS	INTRODUCTION	02	HANDBOOK OF FRESHWATER FISHES OF INDIA BY BEAVEN	POWERPOINT PRESENTATION
	BREEDING TECHNIQUE OF MAJOR CARPS AND COMMON CARPS	04	TRAINING MANUAL ON BREEDING, REARING AND MANAGEMENT OF INDIAN MAJOR CARPS-CARI (ICAR)	CHALK AND BOARD
	HATCHERY AND NURSERY MANAGEMENT	04		
	MONOCULTURE AND POLYCULTURE PRACTICES	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM I MONTH: July – November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS II UNIT I ELEMENTARY PROBABILITY THEORY	Trial, random experiment, sample point and sample space. Definition of an event. Operation of events, mutually exclusive and exhaustive events. Classical (Mathematical) and Empirical definitions of Probability and their properties. Theorems on Addition and Multiplication of probabilities. Independence of events, pairwise and mutual independence for three event Conditional probability, Bayes theorem and its applications.	15	Medhi J.: Statistical Methods, An Introductory Text, Second Edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF. **SIGNATURE OF HOD OF STATISTICS**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM II MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS-2 UNIT I CONTINUOUS RANDOM VARIABLE	Concept of continuous random variable and properties of its probability distribution, Probability density function and Cumulative distribution function, Their graphical representations, Expectation of a random variable and its properties, Measures of location, dispersion, skewness and kurtosis, Raw and central moments (simple illustrations).	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM II MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS-2 UNIT II STANDARD CONTINUOUS DISTRIBUTIONS	Uniform, Exponential (location scale parameter), Memoryless property of exponential distribution, Normal distribution. Derivations of mean, median and variance for uniform and exponential distributions. Properties of normal distributions (without proof). Normal approximation to Binomial and Poisson distribution(statement only). Properties of Normal curve, Use normal tables.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: SYBSC(MS)

SEMESTER: SEM III MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PROBABILITY DISTRIBUTIONS UNIT I UNIVARIATE RANDOM VARIABLES (DISCRETE AND CONTINUOUS)	Moment Generating Function (M.G.F.): Definition Properties: - Effect of change of origin and scale, - M.G.F of sum of two independent random variables X and Y, - Extension of this property for n independent random variables and for n i.i.d. random variables. All above properties with proof, - Uniqueness Property without proof. - Raw moments using M.G.F: using expansion method and using derivative method. Cumulant generating Function (C.G.F.): Definition Properties: - Effect of change and origin and scale, - Additive Property of C.G.F. and cumulants Both properties with proof. Obtaining Cumulants using C.G.F. Derivation of relationship between moments and cumulants up to order four.	15	Fundamentals of Mathematical Statistics: S.C. Gupta, V.K. Kapoor; Eighth Edition; Sultan Chand & Sons	Chalk and Board

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TEACHING PLAN (UNIT PLAN)

	Characteristic Function: Definition and properties (without Proof) Examples of obtaining raw moments and central moments up to order four using M.G.F. and C.G.F. for continuous and discrete distributions. Degenerate distribution (One point distribution) P(X=c) =1. Mean, Variance, Use of Degenerate distribution. Discrete Uniform distribution. Mean, Variance, coefficient of skewness using m.g.f., Bernoulli distribution. Mean, Variance, coefficient of skewness using m.g.f. Binomial distribution: Mean, Variance, Measures of skewness and Kurtosis based on moments using M.G.F. and C.G.F., Nature of probability curve, Mode, Additive property, If X follows Binomial, then to find distribution of n-X. Recurrence relation for moments with proof, Relation between Bernoulli and Binomial using m.g.f.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik   DEPARTMENT: Mathematics   CLASS: TYBSC(STATISTICS)

SEMESTER: SEM V   MONTH: July - November   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I PROBABILITY AND DISTRIBUTION THEORY UNIT IV ORDER STATISTICS	(i) Definition of Order Statistics based on a random sample. (ii) Derivation of: (a) Cumulative distribution function of rth order statistic. (b) Probability density functions of the rth order statistic. (c) Joint Probability density function of the rth and the sth order statistic (r < s) (d) Joint Probability density functions of all n ordered statistics. (e) Distribution of Maximum observation (nth order statistic) and Minimum observation (first order statistic) in case of uniform and Exponential distribution. (f) Probability density function of the difference between rth and sth order statistic (r < s) in case of uniform and exponential distribution	15	Hogg R V and Tanis E. A.: Probability and statistical inference, Fourth edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: TYBSC(STATISTICS)

SEMESTER: SEM VI MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISTRIBUTION THEORY AND STOCHASTIC PROCESSES UNIT IV QUEUING THEORY	Basic elements of the Queuing model. Roles of the Poisson and Exponential distributions. Derivation of Steady state probabilities for birth and death process. Steadystate probabilities and various average characteristics for the following models: (i) $(M/M/1):(GD/\infty/\infty)$ (ii) $(M/M/1):(GD/N/\infty)$ (iii) $(M/M/c):(GD/\infty/\infty)$ (iv) $(M/M/c):(GD/N/\infty)$ (v) $(M/M/\infty):(GD/\infty/\infty)$	15	1. Taha H.A.: Operations Research: An introduction, Eighth edition, Prentice Hall of India Pvt.Ltd.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: TYBSC(STATISTICS)

SEMESTER: SEM V MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II THEORY OF ESTIMATION UNIT II METHODS OF POINT ESTIMATION	Method of Maximum Likelihood Estimation (M.L.E.): 1. Definition of likelihood as a function of unknown parameter for a random sample from: Discrete distribution & Continuous distribution. 2. Derivation of Maximum likelihood estimator (M.L.E.) for parameters of Standard distributions (case of one and two unknown parameters). 3. Properties of MLE (without proof). Method of Moments: 1. Derivation of Moment estimators for standard distributions (case of one and two unknown parameters) Illustrations of situations where MLE and Moment Estimators are distinct and their comparison using Mean Square error. Method of Minimum Chi-square and Modified Minimum Chi-Square	15	Hogg R V and Tanis E. A.: Probability and statistical inference, Fourth edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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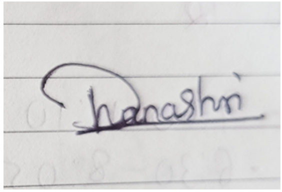
TEACHING PLAN (UNIT PLAN)

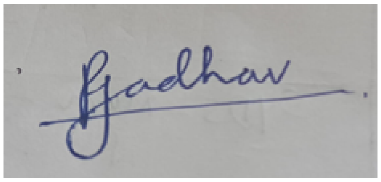
NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FY PCM SEMESTER: I

MONTH:July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concept of Relations & Functions. Equivalence relation, classes and Residue classes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Pape II Algebra I Unit II Functions, Relations & Binary Operation.	1. Relation and function, domain, co-domain, range of a function, composite functions, examples, Direct image and inverse image.	3	Vipul's Sheth Publication Algebra I	Chalk-Board Method
	2. Injective, surjective, bijective functions, Composite of injective, surjective, bijective functions when defined, invertible functions.	4		
	3. Examples of functions including constant, identity, projection, inclusion, Binary operation as a function, properties, examples	3		





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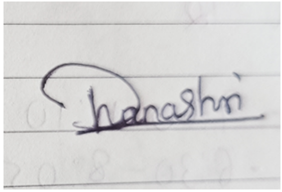
	5. Partition of Set, Equivalence relation, Equivalence classes, properties.	3		
	6. Residue classes and partition of Z, Addition modulo n, Multiplication modulo n, examples.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15



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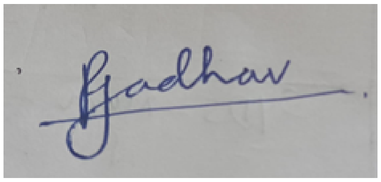

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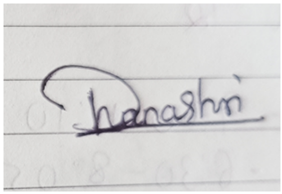
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FY PCM SEMESTER: I

MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the concept of Differential equation, methods of problem solving & it’s applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Pape I Calculus , Unit III Differential Equation	1. Definition of a differential equation, order, degree, ordinary differential equation and partial differential equation, linear and nonlinear ODE	3	Vipul's Calculus III	Chalk-Board Method
	2. Solution of homogeneous and non-homogeneous differential equations of first order and first degree. Notion of partial derivatives.	4		
	3. Exact equations of first order and first degree. Necessary and sufficient condition for M dx + N dy = 0 to be exact	2		



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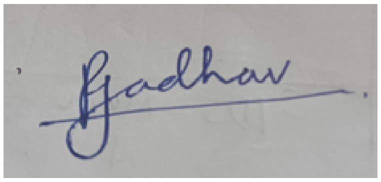

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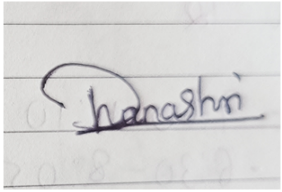
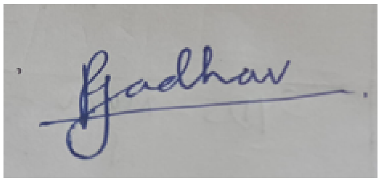
	4. non-exact equations: Rules for finding integrating factors for non-exact equations. Reduction of order.	4		
	5. Linear and reducible linear equations of first order, Applications to orthogonal trajectories, population growth, and finding the current at a given time.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: TYB.Sc (MATHS) SEMESTER: V MONTH: JUNE- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand the concept vector fields and define and evaluate line integrals using the Fundamental Theorem of Line Integrals and Green's Theorem; compute arc length.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Line Integrals	Review of Scalar and Vector fields on R^n, Vector Differential Operators, Gradient, Curl, Divergence. Paths (parametrized curves) in R^n(emphasis on R^2 and R^3), Smooth and piecewise smooth paths. Closed paths. Equivalence and orientation preserving equivalence of paths	4	1. Textbook of Sheth Publication	Black board, chalk and duster
	Definition of the line integral of a vector field over a piecewise smooth path. Basic properties of line integrals including	4		

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	linearity, path-additivity and behaviour under a change of parameters. Examples.			
	Line integrals of the gradient vector field, Fundamental Theorem of Calculus for Line Integrals, Necessary and sufficient conditions for a vector field to be conservative.	4		
	Green's Theorem (proof in the case of rectangular domains). Applications to evaluation of line integrals.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Sy BSc (PM/MS)

SEMESTE: sem III MONTH: July- November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ORDINARY DIFFERENTIAL EQUATION UNIT-III	**Higher order Linear Differential equations:** **1.**The general n−th order linear differential equations, Linear independence, An existence and uniqueness theorem, the Wronskian, Classification: homogeneous and non-homogeneous, General solution of homogeneous and non-homogeneous LDE, The Differential operator	15	Units 5, 6, 7 and 8 of E.D. Rainville and P.E. Bedient; Elementary Differential Equations; Macmillan.	Chalk and board

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	and its properties. 2. Higher order homogeneous linear differential equations with constant coefficients, the auxiliary equations, Roots of the auxiliary equations: real and distinct, real and repeated, complex and complex repeated. 3.Higher order homogeneous linear differential equations with constant coefficients, the method of undermined coefficients, method of variation of parameters. 4. The inverse differential operator and particular integral, Evaluation of 1 f(D) for the functions like eax, sin ax, cos ax, xm, xm sin ax, xm cos ax, eaxV and xV where V is any function of x, 5. Higher order linear differential equations with variable coefficients: The Cauchy's equation: x3d3y/dx3+ x2 d2y/dx2+ x dy/dx + y = f(x) and The Legendre's equation: (ax + b)3d3y/dx3 + (ax +b)2 d2y/dx2+ (ax + b) dydx + y = f(x).			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Jadhav

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VIVA COLLEGE, Virar (W)

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Fy BSc (PCM/PMS)

SEMESTE: sem I MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Calculus I UNIT-II: Sequences in R	(1) Definition of a sequence and examples, Convergence of sequences, every convergent sequences is bounded. Limit of a convergent sequence and uniqueness of limit, Divergent sequences. (2) Convergence of standard sequences like $(1/1 + na)\ \forall a > 0$, $(b n)\ \forall b$, $0 < b$ (3) Algebra of convergent sequences, sandwich theorem, monotone sequences,	15	R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964. E. A. Coddington , An Introduction to Ordinary Differential	Chalk and board

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	monotone convergence theorem and consequences as convergence of $\left(\left(1+\frac{1}{n}\right)^{n}\right)$. (4) Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.		Equations.Prentice Hall, 1961.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: III MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand application of system of homogeneous and non homogeneous equations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III, UNIT II Systems of First Order Linear Differential Equations	Existence and uniqueness theorem for the solutions of initial value problems for a system of two first order linear differential equations in two unknown functions x, y of a single independent variable t, of the form $dx/dt = F(t, x, y)$ $dy/dt = G(t, x, y)$ (Statement only).	4	1. Textbook of Vipul Publication	**White board and Marker**
	Homogeneous linear system of two first order differential equations in two unknown functions of a single independent variable t,	4		

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	of the form dx/dt = a_1(t)x + b_1 (t)y, dy/dt = a_2 (t)x + b_2(t)y.			
	Wronskian for a homogeneous linear system of first order linear differential equations in two functions x, y of a single independent variable t. Vanishing properties of the Wronskian. Relation with linear independence of solutions.	3		
	Non-homogeneous linear system of linear system of two first order differential equations in two unknown functions of a single independent variable t, of the form dx/dt = a_1(t)x + b_1 (t)y + f_1 (t), dy/dt = a_2 (t)x + b_2(t)y+ f_2 (t). General Solution of non-homogeneous system. Relation between the solutions of a system of non-homogeneous linear differential equations and the associated system of homogeneous linear differential equations.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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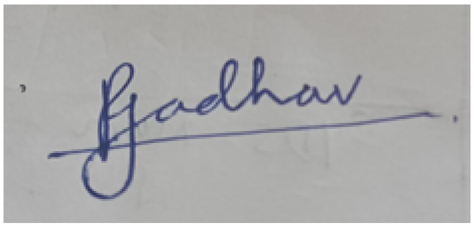

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: III MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand application of numerical solution of ODE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER III Unit III Numerical Solution of Ordinary Differential Equations	rst order ordinary differential equation using: (i) Taylor's series method, (ii) Picard's method for successive approximation and its convergence, (iii) Euler's method and error estimates for Euler's method	4	1. Textbook of Vipul Publication	White board and Marker
	(iv) Modified Euler's Method, (v) Runge-Kutta method of second order and its error estimates, (vi) Runge-Kutta fourth order method.	4		
	2. Numerical solution of simultaneous and higher order ordinary differential equation using: (i) Runge-Kutta fourth order method for solving simultaneous ordinary differential equation	3		
	(ii) Finite difference method for the solution of two point linear boundary value problem.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: FYB.Sc (PCM/PMS) SEMESTER: I MONTH: AUGUST- NOVEMBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand the concept of integers and divisibility

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT I Integers & Divisibility	Statements of well-ordering property of non-negative integers, Principle of finite induction (first and second) as a consequence of Well-Ordering Principle.	4	1. Textbook of Sheth Publication	Black board, chalk and duster
	Divisibility in integers, division algorithm, greatest common divisor (g.c.d.) and least common multiple (l.c.m.) of two non zero integers, basic properties of g.c.d. such as existence and uniqueness of g.c.d. of two non zero integers a&b and that the g.c.d. can be expressed as ma + nb for some m, n $\in$ Z, Euclidean algorithm.	4		

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	Primes, Euclid's lemma, Fundamental Theorem of arithmetic, The set of primes is infinite, there are arbitrarily large gaps between primes, there exists infinitely many primes of the form 4n − 1 or of the form 6n − 1.	4		
	Congruence, definition and elementary properties, Results about linear congruence equations. Examples.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Deepak Malpathak DEPARTMENT:

______Mathematics______________________ CLASS: _____TYIT______________

SEMESTER: ___V____________ MONTH: ___JUNE To September______________

ACADEMIC YEAR: ____2022-2023_________________

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER , UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

A.D.Malpathak

Jadhav

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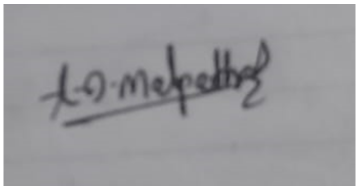
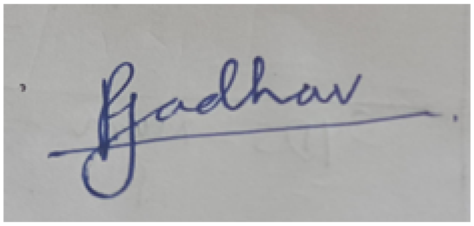
Unit No -1	GROUPS and Subgroup 1) Defination and elementary properties of a group.Orderof group, subgroup, criterian for a subset to a subgroup. A Eliana group, center of a group, Homomorphism and Isomorphism. 2) Example of group including z,Q,R,C,Kevin 4 group, symmetric and Alternating groupsS=the unit circle in c,GL®,SL®,On=order of group of n×noon singular upper triangular Matrices,Bn=Order of non singular upper triangular matrices and groups of symmetries of plane figures 3) Order of an element, subgroup generated by a subset of a group.	02	Abstract Algebra by S.K.Jain University of Algebra by N.S.Goplakrishnan	Blackboard and chalk





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: DIPASHREE PARAG VARTAK_______DEPARTMENT: MATHEMATICS _______ CLASS: TYBSC___________ SEMESTER: VI_______________MONTH: NOVEMBER TO MARCH_________________

ACADEMIC YEAR:_2022-2023___________________

LEARNING OBJECTIVE/S:

- The learners will be able to : understand the concept of power series, to find radius of convergence of different power series and analyze the results, to acquire knowledge about Cauchy residue Theorem and its applications.

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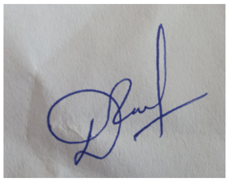
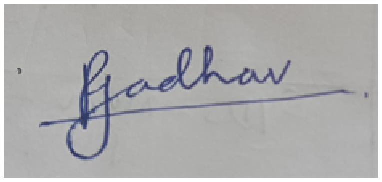
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICS I BASIC COMPLEX ANALYSIS	Power series of complex numbers and related results	3	J. W. BROWN AND R.V.CHURCILL,	WHITE BOARD AND MARKERS, DUSTER





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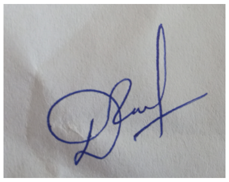
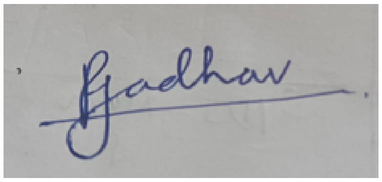
UNIT III **COMPLEX** POWER SERIES, LAURENT SERIES AND ISOLATE D SINGULA NTES.	Radius of convergences, disc of convergence, uniqueness of series representation, examples.	3	Complex analysis and applications	Explanation, Discussion, Problem solving assignments
	Definition of Laurent series , Definition of isolated singularity, statement (without proof) of existence of Laurent series expansion in neighbourhood of an isolated singularity,	4		
	type of isolated singularities viz. removable, pole and essential defined using Laurent series expansion, examples	3		
	Statement of Residue theorem and calculation of residue.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______15___





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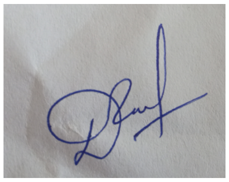
TEACHING PLAN (UNIT PLAN)

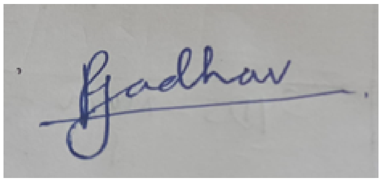
NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Sy BSc (PM/MS)

SEMESTE: sem III MONTH: July- November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ORDINARY DIFFERENTIAL EQUATION UNIT-III	**Higher order Linear Differential equations:** **1.** The general n−th order linear differential equations, Linear independence, An existence and uniqueness theorem, the Wronskian, Classification: homogeneous and non-homogeneous, General solution of homogeneous and non-homogeneous LDE, The Differential operator and its properties.	15	Units 5, 6, 7 and 8 of E.D. Rainville and P.E. Bedient; Elementary Differential Equations; Macmillan.	Chalk and board





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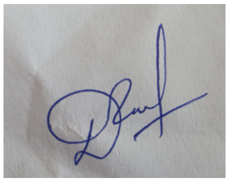
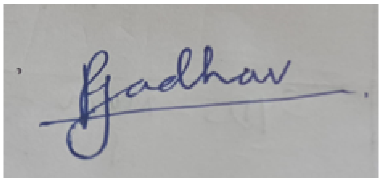
	2. Higher order homogeneous linear differential equations with constant coefficients, the auxiliary equations, Roots of the auxiliary equations: real and distinct, real and repeated, complex and complex repeated. 3.Higher order homogeneous linear differential equations with constant coefficients, the method of undermined coefficients, method of variation of parameters. 4. The inverse differential operator and particular integral, Evaluation of 1 f(D) for the functions like eax, sin ax, cos ax, xm, xm sin ax, xm cos ax, eaxV and xV where V is any function of x, 5. Higher order linear differential equations with variable coefficients: The Cauchy's equation: x3d3y/dx3+ x2 d2y/dx2+ x dy/dx + y = f(x) and The Legendre's equation: (ax + b)3d3y/dx3 + (ax +b)2 d2y/dx2+ (ax + b) dydx + y = f(x).			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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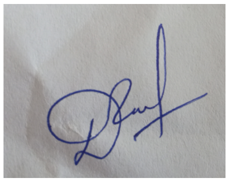
TEACHING PLAN (UNIT PLAN)

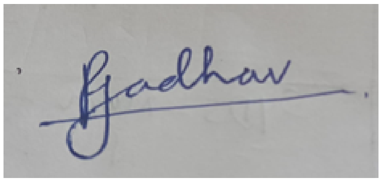
NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Fy BSc (PCM/PMS)

SEMESTE: sem I MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Calculus I UNIT-II: Sequences in R	(1) Definition of a sequence and examples, Convergence of sequences, every convergent sequences is bounded. Limit of a convergent sequence and uniqueness of limit, Divergent sequences. (2) Convergence of standard sequences like $(1/1 + na)\,\forall a > 0,\ (b\,n)\,\forall b,\ 0 < b$ (3) Algebra of convergent sequences, sandwich theorem, monotone sequences,	15	R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964. E. A. Coddington , An Introduction to Ordinary Differential	Chalk and board





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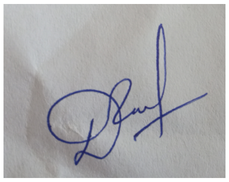
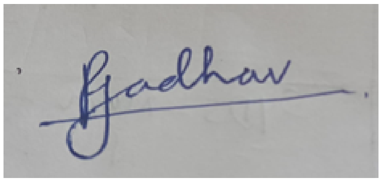
	monotone convergence theorem and consequences as convergence of $\left(\left(1+\frac{1}{n}\right)^\wedge n\right)$. (4) Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.		Equations.Prentice Hall, 1961.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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Teaching plan for T.Y.B.Sc. (Maths) sem 5 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Mathematics

CLASS: Tybsc(Maths)

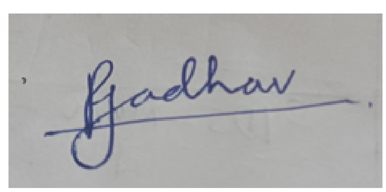
SEMESTER: 5

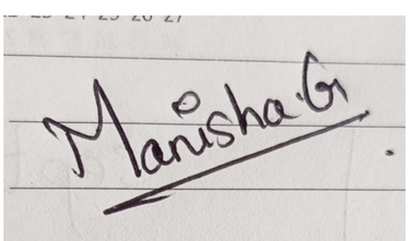
MONTH: August to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Demonstrate an understanding of concepts of metric spaces and topological spaces and their roll in mathematics.
- prove the basic results about compactness.
- Apply the theory in course to solve variety of problems at an appropriate level of difficulties
- Demonstrate the skill in communicating mathematics orally and in writing.





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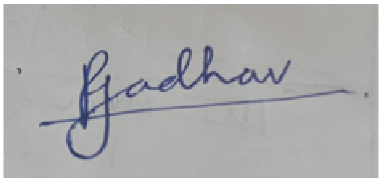
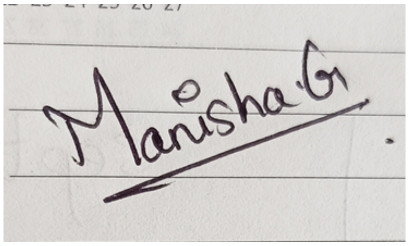
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USMT503 **Topology of Metric Space** **unit 1**	Metric space;: • Definition and examples of Metric spaces R , R^2 , Euclidean space R^n with it's Euclidean • Sup and sum metric, complex jumper metric • The space l^1 and $l^2$of sequence and the space C[a,b] of real valued continuous functions on [a,b] • Discrete metric space	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	• Distance metric induced by the norm, translation invariance of metric induced by norm • Metric subspaces • Product of two metric spaces	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster





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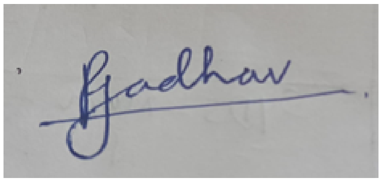
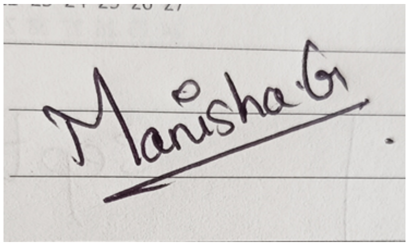
	• Open balls and open sets in metric space • Examples of open sets in various metric space • Haus-droff property, Interior of a set • Properties of open sets, structure of open sets in R • Equivalent metrices	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	• Distance of a point from a set, between two sets • Diameter of a set in metric space • Bounded sets	2	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	• Closed ball and closed set in metric space- definition and example • Limit point of a set • Isolated point • Closed set contains all its limit points	4	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster





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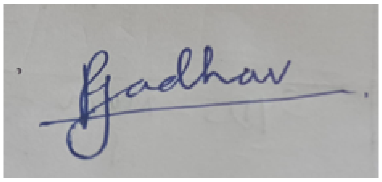
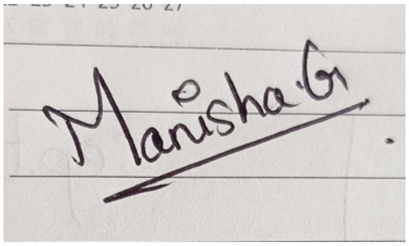
	• Closure of a set and boundary of a set			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USMT503 **Topology of Metric Space** **<u>unit 3</u>**	**Compact set:** • Definition of compact set using open cover • Examples of compact sets in different metric spaces R, R^2, R^n,	4	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	Properties of compact set: • A compact set is closed and bounded(converse is not true) • Every infinite bounded subset of compact set has limit point	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster





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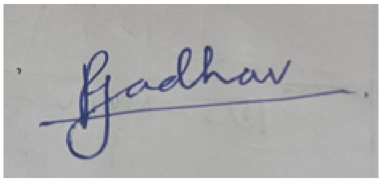
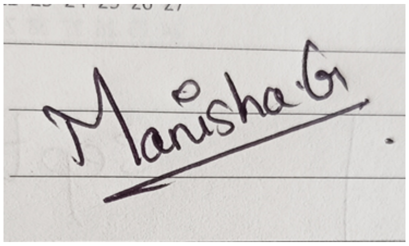
	• A closed subset of compact set is compact. • Union and intersection of compact sets	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	Equivalent statements for compact set: • Sequential compactness property • Heine- Borel property • Closed and boundedness property • Bolzano-Weierstrass property	5	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures





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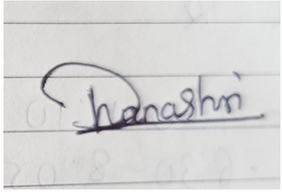
TEACHING PLAN (UNIT PLAN)

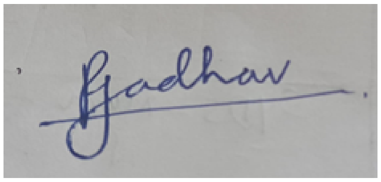
NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: TY B.Sc. Mathematics SEMESTER: V

MONTH: July ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand applications of derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I: Multivariable Calculus II Unit III: Surface Integral	Parameterized surfaces. Smoothly equivalent parameterizations. Examples.	2	G. B. Thomas and R.L Finney T.Y.B.Sc Calculus -Sheth publications 2. T. M. Apostol, Calculus Vol I	Chalk board method.
	Area of such surfaces. Definition of surface integrals of scalar-valued functions as well as of vector fields defined on a surface.	4		
	Curl and divergence of a vector field. Elementary identities involving gradient, curl and divergence.	3		
	Stroke's Theorem (proof assuming the general from of Green's Theorem).	3		
	Gauss' Divergence Theorem (proof only in the case of cubical domains). Examples	3		





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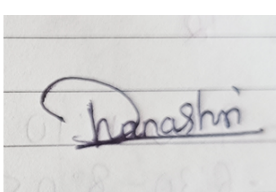
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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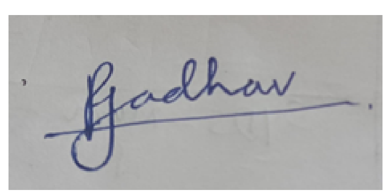

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _Mr. ABHAY SHASHIKANT DHANMEHER DEPARTMENT: MATHEMATICS CLASS: T.Y.B.Sc.MATHS

SEMESTER: V MONTH: JULY – OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied Component Computer Programming and system analysis UNIT – I **RELATIONAL DATA BASE MANAGE**	**Introduction to Data base Concepts**: Database, Overview of data base management system. Data base Languages- Data Definition Languages (DDL) and Data Manipulation Languages (DML).	3	Data base management system, RamKrish	Black-Board
	Entity Relation Model : Entity, artibutes, keys, relations, Designing ER diagram, integrity Constraints over relations, conversion of ER to relations with and without constrains.	3		
	SQL Commands and functions Creating and altering tables: Handling data using SQL selecting data using SELECT statement, FROM clause, WHERE clause, HAVING clause, ORDERBY, GROUP BY, DISTINCT and	3		

Abhay

Jadhav

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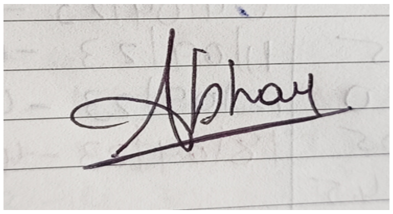
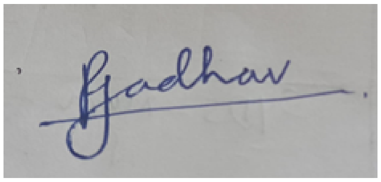
MENT SYSTEM	ALL predicates, Adding data with INSERT statement,		nam, Gehrke, McGraw-Hill
	c) Functions: Aggregate function, Numeric Funstion,String Function, Data function, Clauses of commands Group by, Having	3	
	d) Joining tables: Inner, outer and cross joins, union.Clauses	3	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: TYB.Sc (MATHS) SEMESTER: V MONTH: JULY - OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand the concept of cyclic group , subgroup and its generators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT II Cyclic group and cyclic susubgroup	Examples of cyclic groups such as Z and the group μn of the n−th roots of unity.	2	1.University Algebra by N.S. Gopalkrishna 2. Abstract Algebra By Khanna & Bhambri	White board & Marker
	Properties of cyclic groups and cyclic subgroup	4		
	Finite cyclic groups	3		
	Infinite cyclic groups and their generators.	4		

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	Properties of generators.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

CLASS: TYB.Sc (MATHS)   SEMESTER: V   MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of Lagrange's theorem with the help of normal subgroup.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT III Lagrange's Theorem	Cosets of a subgroup in a group. Lagrange's Theorem. Normal subgroups.	4	1.University Algebra by N.S. Gopalkrishna 2.Contemporary Abstract Algebra by J. Gallian	White board & Marker
	Alternating group An. Listing normal subgroups of A4, S3. Quotient (or Factor) groups. Fundamental Theorem of homomorphisms of groups.	4		
	The group Z/nZ of residue classes (mod n). Characterization of cyclic groups (as being isomorphic to Z or Z/nZ for some n $\in$ N).	4		
	Cayley's Theorem for finite groups.	1		
	External direct products of groups. Examples.	2		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: IV (Maths Paper II) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Definition of a linear transformation of vector spaces; elementary properties, Rank-Nullity Theorem, Invertible linear transformations,Similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT I. Linear Transformation	1. Definition of a linear transformation of vector spaces; elementary properties. Examples. Sums and scalar multiples of linear transformations. Composites of linear transformations. A Linear transformation of V $\longrightarrow$ W, where V, W are vector spaces over R and V is a finite-dimensional vector space is completely determined by its action on an ordered basis of V.	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	2. Null-space (kernel) and the image (range) of a linear transformation. Nullity and rank	4		

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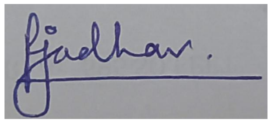
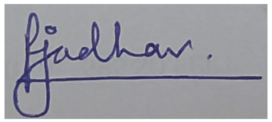
TEACHING PLAN (UNIT PLAN)

	of a linear transformation. Rank-Nullity Theorem (Fundamental Theorem of Homomor- phisms).			
	3. Matrix associated with linear transformation of V $\longrightarrow$ W where V and W are finite dimensional vector spaces over R.. Matrix of the composite of two linear transformations. Invertible linear transformations (isomorphisms), Linear operator, Effect of change of bases on matrices of linear operator.	4		
	4. Equivalence of the rank of a matrix and the rank of the associated linear transformation. Similar matrices.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYB.Sc (PM/MS) **SEMESTER: IV (Maths Paper II)** **MONTH: December-March** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to learn inner product space, properties, Cauchy Schwarz Inequality, orthogonal complement, orthogonal decomposition.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT II. Inner Products and Orthogonality	Inner product spaces (over R). Examples, including the Euclidean space Rn and the space of real valued continuous functions on a closed and bounded interval. Norm associated to an inner product. Cauchy-Schwarz inequality. Triangle inequality.	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	Angle between two vectors. Orthogonality of vectors. Pythagoras theorem and some	4		

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	geometric applications in R2 . Orthogonal sets, Orthonormal sets. Gram-Schmidt orthogonalizaton process. Orthogonal basis and orthonormal basis for a finite-dimensional inner product space.			
	Orthogonal complement of any set of vectors in an inner product space. Orthogonal complement of a set is a vector subspace of the inner product space	4		
	Orthogonal decomposition of an inner product space with respect to its subspace. Orthogonal projection of a vector onto a line (one dimensional subspace). Orthogonal projection of an inner product space onto its subspace.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: IV (Maths Paper II) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to learn eigen values and eigen vector of linear transformation, Cayley Hamilton Theorem, diagonalisable matrix,spectral theorem and application to quadratic form

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT III. Eigenvalues, Eigenvectors and Diagonalisation	Eigenvalues and eigenvectors of a linear transformation of a vector space into itself and of square matrices. The eigenvectors corresponding to distinct eigenvalues of a linear transformation are linearly independent. Eigen spaces. Algebraic and geometric multiplicity of an eigenvalue	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	Characteristic polynomial. Properties of characteristic polynomials (only statements). Examples. Cayley-Hamilton Theorem. Applications. Invariance of the characteristic polynomial and eigenvalues of similar matrices	4		

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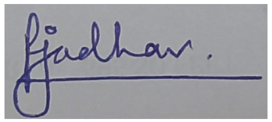
	Diagonalisable matrix. A real square matrix A is diagonalisable if and only if there is a basis of Rn consisting of eigenvectors of A. (Statement only - An×n is diagonalisable if and only if sum of algebraic multiplicities is equal to sum of geometric multiplicities of all the eigenvalues of A = n). Procedure for diagonalising a matrix.	4		
	Spectral Theorem for Real Symmetric Matrices (Statement only). Examples of orthogonal diagonalisation of real symmetric matrices. Applications to quadratic forms and classification of conic sections.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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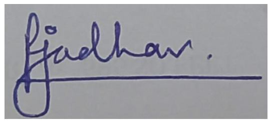

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper I) MONTH: July -September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of infinite series,test for convergence,alternating infinite series briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Infinite series in R. Definition of convergence and divergence. Basic examples including geometric series. Elementary results for n=1 but converse not true. Cauchy Criterion. Algebra of convergent series	3		
	Tests for convergence: Comparison Test, Limit Comparison Test, Ratio Test (without proof), Root Test (without proof), Abel Test (without proof) and Dirichlet Test (without proof).	4		
	Examples. The decimal expansion of real numbers. Convergence of $\sum 1/n^p$	4		

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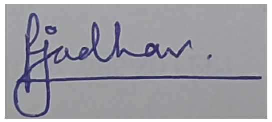
	Divergence of harmonic series $\sum 1/n$			

PAPER I, UNIT I Infinite Series			1. Sudhir Ghorpade, Balmohan Limaye; A Course in Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and IBH Pub. Co.,	Chalk,Duster and Blackboard
	Alternating series. Leibnitz's Test. Examples. Absolute convergence, absolute convergence implies convergence but not conversely. Conditional Convergence.	4		



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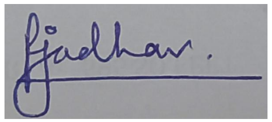

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			New Delhi, 1970.	

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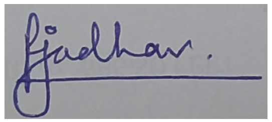

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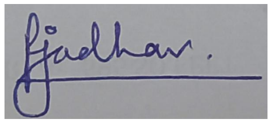

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper I) MONTH: July -September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Riemann integrable function , their algebra, criterion of Riemann integrable function.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Riemann Integration	1)Idea of approximating the area under a curve by inscribed and circumscribed rectangles. Partitions of an interval. Refinement of a partition. Upper and Lower sums for a bounded	3	1. Sudhir Ghorpade, Balmohan Limaye; A Course in	Chalk,Duster and Blackboard

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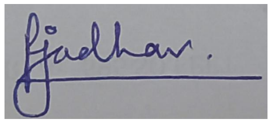
	real valued function on a closed and bounded interval. Riemann integrability and the Riemann integral.		Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and IBH Pub. Co., New Delhi, 1970.	
	2)Criterion for Riemann integrability. Characterization of the Riemann integral as the limit of a sum. Examples	4		
	3. Algebra of Riemann integrable functions. Also, basic results	4		
	4)Riemann integrability of a continuous function, and more generally of a bounded function whose set of discontinuities has only finitely many points. Riemann integrability of monotone functions.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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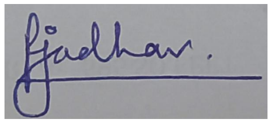

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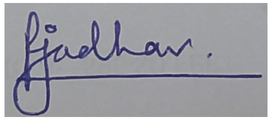

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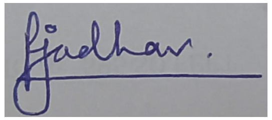

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYBSC (PM/MS) **SEMESTER: III (Subject -Maths Paper I)** **MONTH: July -September** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to : concept the of area between the two curves,first and second fundamental theorem of calculus, Beta and Gamma function

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit III Applications of Integrations and Improper Integrals	1.Area between the two curves. Lengths of plane curves. Surface area of surfaces of revolution.	3	1. Sudhir Ghorpade, Balmohan Limaye; A Course in Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and	Chalk,Duster and Blackboard
	2Continuity of the function . First and Second Fundamental Theorems of Calculus.	4		
	3Mean value theorem. Integration by parts formula. Leibnitz's Rule. 4. Definition of two types of improper integrals. Necessary and sufficient conditions for convergence.	4		
	5Absolute convergence. Comparison and limit comparison tests for convergence. 6. Gamma and Beta functions and their properties. Relationship between them (without	4		

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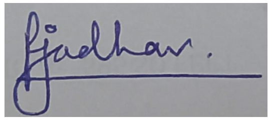
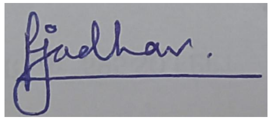
TEACHING PLAN (UNIT PLAN)

	proof).		IBH Pub. Co., New Delhi, 1970.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper II) MONTH: June -October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of System of Equations, Matrices, Determinants briefly

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit I. System of Equations, Matrices	1. Systems of homogeneous and non-homogeneous linear equations, Simple examples of find- ing solutions of such systems. Geometric and algebraic understanding of the solutions. Matrices (with real entries), Matrix representation of system of homogeneous and non-homogeneous linear equations. Algebra of solutions of systems of homogeneous linear equations. A system of homogeneous linear equations with number of unknowns more than the number of equations has infinitely many solutions.	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear Algebra - A Geometric Approach, PHI Learning.	Chalk ,duster , blackboard
	2. Elementary row and column operations. Row equivalent matrices. Row reduction (of a matrix to its row echelon form). Gaussian elimination. Applications to solving systems of linear equations. Examples	4		

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	Elementary matrices. Relation of elementary row operations with elementary matrices. Invertibility of elementary matrices. Consequences such as (i) a square matrix is invertible if and only if its row echelon form is invertible.	4		
	ii) invertible matrices are products of elementary matrices. Examples of the computation of the inverse of a matrix using Gauss elimination method	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYBSC (PM/MS) **SEMESTER: III (Subject -Maths Paper II)** **MONTH: June -October** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S: The learners will be able to understand concept the ofVector Space, Subspace, basis of a vector space, properties .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit II. Vector space over R	Definition of a vector space over R. Subspaces; criterion for a nonempty subset to be a subspace of a vector space. Examples of vector spaces, including the Euclidean space Rn , lines, planes and hyperplanes in Rn passing through the origin, space of systems of homogeneous linear equations, space of polynomials, space of various types of matrices, space of real valued functions on a set.	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear Algebra - A Geometric Approach, PHI Learning.	Chalk ,duster , blackboard
	Intersections and sums of subspaces. Direct sums of vector spaces. Quotient space of a vector space by its subspace.	4		
	Linear combination of vectors. Linear span of a subset of a vector space. Definition of a finitely generated vector space. Linear dependence and independence of subsets of a vector	4		

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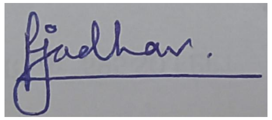
	space.			
	Basis of a vector space. Basic results that any two bases of a finitely generated vector space have the same number of elements. Dimension of a vector space. Examples. Bases of a vector space as a maximal linearly independent sets and as minimal generating sets.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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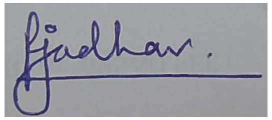

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper II) MONTH: June -October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:The learners will be able to understand concept the ofdeterminant and properties of determinant,row and column Space

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit III. Determinants, Linear Equations	1. Inductive definition of the determinant of a n × n matrix (e. g. in terms of expansion along the first row). Example of a lower triangular matrix. Laplace expansions along an arbitrary row or column. Determinant expansions using permutations 2. Basic properties of determinants (Statements only); (i) det A = det AT	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear	Chalk ,duster , blackboard

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	. (ii) Multilinearity and alternating property for columns and rows. (iii) A square matrix A is invertible if and only if det A 6= 0. (iv) Minors and cofactors. Formula for A−1 when det A 6= 0. (v) det(AB) = det A det B.		Algebra - A Geometric Approach, PHI Learning.	
	3. Row space and the column space of a matrix as examples of vector space. Notion of row rank and the column rank. Equivalence of the row rank and the column rank. Invariance of rank upon elementary row or column operations. Examples of computing the rank using row reduction.	4		
	4. Relation between the solutions of a system of non-homogeneous linear equations and the associated system of homogeneous linear equations. Necessary and sufficient condition for a system of non-homogeneous linear equations to have a solution [viz., the rank of the coefficient matrix equals the rank of the augmented matrix [A|B]]. Equivalence of statements (in which A denotes an n × n matrix) such as the following.	4		

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	(i) The system Ax = b of non-homogeneous linear equations has a unique solution. (ii) The system Ax = 0 of homogeneous linear equations has no nontrivial solution. (iii) A is invertible. (iv) det A 6= 0. (v) rank(A) = n.			
	5. Cramers Rule. LU Decomposition. If a square matrix A is a matrix that can be reduced to row echelon form U by Gauss elimination without row interchanges, then A can be factored as A = LU where L is a lower triangular matrix.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: STATISTICS

CLASS: TYB.Sc (STATISTICS) SEMESTER: V Subject -(Stats Paper V) MONTH:JULY-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn mathematical formulation,simplex method, properties of duality

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V Unit I : LINEAR PROGRAMMIN G PROBLEM	Mathematical Formulation : Maximization and Minimization type problems. Concepts of solution, Feasible solution,	3	1..Kantiswarup, P. K. Gupta, Manmohan : Operations Research, Twelfth edition, Sultan Chand & sons. 2. Sharma S. D. : Operations Research, Eighth edition, KedarnathRamnat h& Co	Chalk, duster, blackboard
	Basic solution, Basic feasible solution, Optimal solution. Graphical solution to problems.	4		
	. Simplex method of solving problems with two or more variables. Big M method. Concept of Duality,	4		
	Properties of Duality. Its use in solving L.P.P. Relationship between optimum solutions to Primal and Dual. Economic interpretation of Dual.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: FYB.Sc (PCM) SEMESTER: II (Subject : _______Maths Paper I__________)

MONTH: ____________ ACADEMIC YEAR: __________

MONTH: January-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : definition of limit, continuity, intermediate value theorem

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-I: Limits and Continuity	{Brief review: Domain and range of a function, injective function, surjective function, bijective function, composite of two functions (when defined), Inverse of a bijective function. Graphs of some standard functions such as |x|, ex, log x, over suitable intervals of R.}	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing	Chalk and duster method, black board

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	(1) $\varepsilon-\delta$ definition of Limit of a function, uniqueness of limit if it exists, algebra of limits, limits of composite function, sandwich theorem, left-hand-limit f(x), right-handlimit lim f(x), non-existence of limits	4	company, 1994.	
	(2) Continuous functions: Continuity of a real valued function at a point and on a set using $-\delta$ definition, examples, Continuity of a real valued function at end points of domain using definition, f is continuous at a if and only if lim x−→af(x) exists and equals to f(a), Sequential continuity, Algebra of continuous functions, discontinuous functions, examples of removable and essential discontinuity.	4		
	(3) Intermediate Value theorem and its applications, Bolzano-Weierstrass theorem (statement only): A continuous function on a closed and bounded interval is bounded and attains its bounds.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (PCM) SEMESTER: II (Subject : _______Maths Paper I__________)
MONTH: ____________ ACADEMIC YEAR: __________
MONTH: January-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Differentiation,examples of differentiable functions,Chain rule, derivatives of inverese functions briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-II: Differentiability	Differentiation of real valued function of one variable: Definition of differentiability of a function at a point of an open interval,	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing company, 1994.	Chalk and duster method
	examples of differentiable and non differentiable functions, differentiable functions are continuous but not conversely, algebra of differen-tiable function	4		

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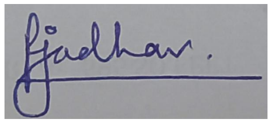
TEACHING PLAN (UNIT PLAN)

	Chain rule, Higher order derivatives, Leibniz rule,	4		
	Derivative of inverse functions, Implicit differentiation (only examples)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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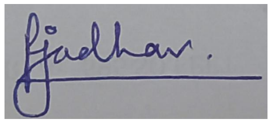

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TEACHING PLAN (UNIT PLAN)

CLASS: FYB.Sc (PCM) **SEMESTER: II** **(Subject : _______Maths Paper I__________)**

MONTH: ____________ **ACADEMIC YEAR: __________**

MONTH: January-April **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to Mean Value Theorem,L-Hospital rule

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-III Applications of differentiability	Rolle's Theorem, Lagrange's and Cauchy's Mean Value Theorems, applications and examples, Monotone increasing and decreasing functions, examples.	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing company, 1994.	Chalk and duster method, black board
	L-Hospital rule (without proof), examples of indeterminate forms, Taylor's theorem with Lagrange's form of remainder with proof, Taylor polynomial and applications.	4		

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	Definition of critical point, local maximum/minimum, necessary condition, stationary points, second derivative test, examples, concave/convex functions, point of inflection	4		
	Sketching of graphs of functions using properties.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:SYBSC (PM/MS) SEMESTER: IV (Maths Paper I) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the concept of vectors in R^n ,algebra of sequence in R^n,functions of several variables briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT I. Functions of Several Varisables	1. Review of vectors in R^n n=2,3and basic notions such as addition and scalar multiplication, inner product, length (norm), and distance between two points	3	R. G. Bartle- D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	2. Real-valued functions of several variables (Scalar fields). Graph of a function. Level sets (level curves, level surfaces, etc). Examples. Vector valued functions of several variables (Vector fields). Component functions. Examples.	4		
	Algebra of convergent sequences, sandwich theorem, monotone sequences, monotone convergence theorem and consequences as convergence of $\left((1+\frac{1}{n})^n\right)$	4		
	Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a	4		

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	Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.			

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS:SYBSC (PM/MS) **SEMESTER: IV** **(Maths Paper I) MONTH: December-March** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to Differentiability of scalar fields, Gradient, relation between total derivative and gradient, Euler theorem, higher order partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT II. Differentiation of Scalar Fields	Differentiability of scalar fields (in terms of linear transformation). The concept of (total) derivative. Uniqueness of total derivative of a differentiable function at a point. Examples of functions of two or three variables. Increment Theorem. Basic properties including (i) continuity at a point of differentiability, (ii)existence of partial derivatives at a point of differentiability, and (iii) differentiability when the partial derivatives exist and are continuous.	3	R. G. Bartle- D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	Gradient. Relation between total derivative and gradient of a function. Chain rule. Geometric properties of gradient. Tangent planes	4		

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	Euler's Theorem.	4		
	Higher order partial derivatives. Mixed Partial Theorem (n=2)	4		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:SYBSC (PM/MS) SEMESTER: IV (Maths Paper I) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to learn application of differentiation of scalar field, derivative test, differentiation of vector field,chainrule.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT III. Applications of Differentiation of Scalar Fields and Differentiation of Vector Fields	Applications of Differentiation of Scalar Fields: The maximum and minimum rate of change of scalar fields. Taylor's Theorem for twice continuously differentiable functions. Notions of local maxima, local minima and saddle points.	3	R. G. Bartle- D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	First Derivative Test. Examples. Hessian matrix. Second Derivative Test for functions of two variables. Examples. Method of Lagrange Multipliers.	4		
	Differentiation of Vector Fields: Differentiability and the notion of (total) derivative. Differentiability of a vector field implies continuity, Jacobian matrix	4		

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	Relationship between total derivative and Jacobian matrix. The chain rule for derivative of vector fields (statements only).	4		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of coloring of graph, planar graphs, combinatorics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT I Colorings of graph	Vertex coloring- evaluation of vertex chromatic number of some standard graphs, critical graph.	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster method,black board
	Upper and lower bounds of Vertex chromatic Number- Statement of Brooks theorem. Edge coloring- Evaluation of edge chromatic number of standard graphs such as complete graph,	4		
	complete bipartite graph, cycle. Statement of VizingTheorem. Chromatic polynomial of graphs- Recurrence Relation and properties of Chromatic polynomials. Vertex and Edge cuts vertex	4		
	the relation between vertex and edge connectivity. Equality of vertex and edge connectivity of cubic graphs. Whitney's theorem on 2-vertex connected graph	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to planar graph,5 color theorem, network and flow,max flow and min cut theorem

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Planar graph	Definition of planar graph. Euler formula and its consequences. Non planarity of K5 ; K(3; 3). Dual of a graph. Polyhedran in ℝ and existence of exactly five regular polyhedra-	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster , black board
	(Platonic solids) Colorabilty of planar graphs- 5 color theorem for planar graphs	4		
	statement of 4 color theorem. Networks and flow and cut in a network- value of a flow and the capacity of cut in a network	4		
	relation between flow and cut. Maximal flow and minimal cut in a network and Ford-Fulkerson theorem.	4		

RJadhav.

RJadhav.

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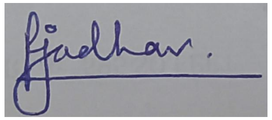
TEACHING PLAN (UNIT PLAN)

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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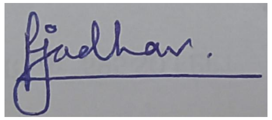

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to learn Applications of Inclusion Exclusion Principle, solving recurrence relation, hall's theorem of SDR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT III Combinatorics	Applications of Inclusion Exclusion Principle- Rook polynomial, Forbidden position problems Introduction to partial fractions and using Newton's binomial theorem for real power find series	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster,black board
	expansion of some standard functions. Forming recurrence relation and getting a generating function.	4		
	Solving a recurrence relation using ordinary generating functions. System of Distinct Representatives	4		
	Hall's theorem of SDR.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF - MR. SNEHAL S PATIL **DEPARTMENT**: Accounting and Finance **CLASS:** FYBAF **SEMESTER**: I

SUBJECT: BUSINESS COMMUNICATION - I **MONTH**: August to December **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students' writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Theory of Communication	**1) Concept of Communication-** Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom
2) Obstacles to Communication in Business World	**2) Channels and Objectives of Communication:** **Channels:** Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees **3) Methods and Modes of Communication:** **Methods:** Verbal and Nonverbal, Characteristics of Verbal Communication, Characteristics of Non-verbal Communication, Business Etiquette **Modes:** Telephone and SMS Communication (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication, Video and Satellite Conferencing **1) Problems in Communication /Barriers to Communication:** Physical, Semantic/Language, Socio-Cultural, Psychological Barriers, Ways to Overcome these Barriers			
2) Obstacles to Communication in Business World	2**) Listening:** Importance of Listening Skills, Cultivating good Listening Skills – **Introduction to Business Ethics:** Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility **Actual business practices:** Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

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3) Business Correspondence	**1)Theory of Business Letter Writing:** Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, **Personal Correspondence:** Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom
4) Language and Writing Skills	**Commercial Terms used in Business Communication Paragraph Writing:** Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 * 4 = 60

Mr. Snehal S Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:

Dr. Priyanka Singh

DEPARTMENT: **Accounting and Finance** CLASS:**FYBAF**

SEMESTER: **I**______

SUBJECT: **BUSINESS ENVIRONMENT**

MONTH: August to December   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the complex structure of Business and its Environment and how each environment impacts the business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1 Business and its Environment	Business Objectives, Dynamics of Business and its Environment, types of Business Environment	15	NG Kale	Chalk and Duster Google Classroom
Unit 3 Contemporary Issues	Corporate Social Responsibility and Corporate Governance, Ecology and Business, Carbon Credit. Social Audit and Commercial Audit.	15		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Arun Raut DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: I SUBJECT: Cost Accounting MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction	Introduction and classification of cost Definition of cost, Costing and cost Accounting. Cost Centre, cost unit. Classification of cost on different basis. Distinguish between cost Accounting and financial Accounting.	8	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.
Material	MATERIAL COST Introduction, definition, stock levels formula and calculation. EOQ Introduction, formula and calculation Stock ledger FIFO and Weighted average Practical questions.	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.
Labour	LABOUR COST Introduction, peace rate and hour rate calculations, bonus contributions, halsey's formula, uRowan, Tailor, Barth practical questions.	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.

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Overheads	OVERHEADS Indirect cost Introduction, distribution of cost on different basis practical questions	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 53

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr. SACHIN ARJUN KADAM DEPARTMENT: Accounting and Finance CLASS:FYBAF Div (B and C) SEMESTER: I

SUBJECT: COST ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	**Introduction to Cost Accounting** Meaning, Define, Features, classification of types- Marginal costing, implicit costing, opportunity costing, etc. Objectives, difference between Cost accounting and Financial accounting.	6	Ainapure	Board, chawlk, ppt, you tube link
Unit 4	**Overhead Costing** Meaning, Concepts, Format, Problems 6 (Primary and Secondary)	9	Ainapure	Board, chawlk, ppt, you tube link

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___Dr. Akruti Bose___ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I SUBJECT: BUSINESS ECONOMICS-1 MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn in a simple manner to induce and retain the interest of the subject Economics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3	Cost Concepts: Types of Cost, Total, Average and marginal cost. Cost output relationship in short-run and Long run, Learning Curve.	1	Manan Prakashan,	Chalk and Blackboard.
Unit 5	Cost Oriented pricing methods: Cost--Plus Pricing, Marginal Cost pricing, Mark-up Pricing, discriminating pricing, multiple-product pricing, transfer pricing.	1	Sheth Publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Pandey DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Economics MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
The students will be able to Understand the important terms of Business Economics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS
Introduction to Business Economics	●Basic concepts for business economic analysis Opportunity cost Incremental and marginal concepts Marginal analysis ●Functional relations and tool for economic analysis	03	MANAN Prakashan	Chalk and Board
Market Demand and Supply	Demand, Supply, Market Equilibrium, Changes in Market Equilibrium	02	MANAN Prakashan	Chalk send Board, Group Discussion

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Demand Function	• Meaning of demand, The Law of Demand, Determinants of Demand, demand function, price, income and Substitution effects, Nature of demand curve under different markets.	03	MANAN Prakashan	Chalk and Board, Group Discussion
Elasticity of Demand	Meaning of elasticity, price elasticity of demand, Income elasticity of demand, Cross elasticity of demand, Promotional Elasticity of Demand, Relationship between price elasticity of demand and Revenue Concepts, Importance of Elasticity of demand.	03	MANAN Prakashan	Chalk and Board
Demand Estimation and Forecasting	Significance of Demand Forecasting, Types of Demand Forecasting, Steps I Demand Forecasting, Methods in Demand Forecasting.	02	MANAN Prakashan	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bristi Biswas DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Economics-I MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the application of Microeconomics at the corporate level.

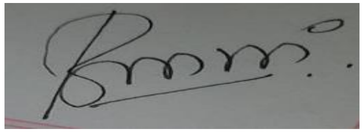
The learners will be able to: Observe Microeconomics in the real world and understand and take business decisions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module I Introduction to business economics	Meaning of demand, law of demand, determinants of demand, demand function, price, income and substitution effects, nature of demand curve under different markets.	10		Chalk & Board
Module II Demand Analysis	Meaning of elasticity, price elasticity of demand , income elasticity of demand , cross elasticity of demand,promotional elasticity of demand, importance of elasticity of demand , relationship between price elasticity of demand and revenue concept. Significance of demand forecasting ,types of demand forecasting, steps in demand forecasting ,methods of demand forecasting.	10		Chalk & Board

Module III Supply and production decisions and cost of production	Concept of production, production function, isoquants ,ridge lines least cost combination of inputs ,expansion path. Types of production function ,law of variable proportions, laws of returns to scale. Meaning of economies and diseconomies of scale, Internal economies and diseconomies of scale, external economies and diseconomies of scale. Cost concepts: money cost, accounting cost and economic cost, fixed , variable and total cost , total , average and marginal cost. Cost function, short run cost output ,relationship between AC, AFC ,AVC and MC, relationship between AC and MC ,short run average cost and output, long run cost output, long run average cost curve ,long run marginal cost curve ,learning curve, long run AC and output. Concept of break even point ,variables influencing the break even point ,business application of break even analysis ,limitations of break even analysis.		12	Chalk & Board
Module IV Market structure perfect competition and monopoly and pricing and output decisions under imperfect competition	Market structure ,types of market ,need to analyse the market structure. Perfect competition meaning and features ,short run equilibrium of the firm, long run equilibrium of the firm, equilibrium of industry and firm. Features of monopoly , sources of monopoly power, equilibrium of monopoly firm ,comparison between perfect competition and monopoly. Features of monopolistic competition, short run equilibrium of the firm, long run equilibrium of the firm ,selling cost and its effects, role of advertisement. Meaning of oligopoly ,characteristics of oligopoly ,collusive and non collusive oligopoly ,price rigidity , and price leadership.		12	Chalk & Board
Module V Pricing practices	Meaning of pricing practices, degrees of price discrimination, conditions for price discrimination, conditions for profitable price discrimination, equilibrium of price discriminating monopolist ,dumping.		10	Chalk & Board

	Introduction to pricing practices part II, marginal cost pricing ,cost plus pricing ,multi product pricing Transfer pricing.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 54



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:____REENA BEHERA__________________ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of using micro economics for the growth of the economy by developing a core understanding regarding demand, supply and market condition in terms of revenue and cost and also application of forecasting for the development of the economy

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS - I MODULE III, IV & V	3. Supply and Production Decisions and Cost of Production Production Function: Short run analysis with Law of Variable Proportions – Production function with two variable inputs – isoquants, ridge lines and least cost combination of inputs – Long run production function and Laws of Returns to Scale – expansion path – Economies and Diseconomies of Scale Cost Concepts: Accounting cost and economic cost, implicit and explicit cost, fixed and variable cost – total, average and marginal cost – Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed), LAC and Learning Curve – Break even analysis (with business applications) 4. Market structure : Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	2 lecture per week	Managerial Economics by P.L.Mehta, M.Hirchey Dominick Salvatore. Principles of Economics by Gregory Mankiw Managerial Economics and Concept by Pal Sumitra	Lecture, group discussion, test, oral presentation of important topics.

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	Short run and long run equilibrium of a competitive firm and of industry – monopoly – short run and long-run equilibrium of a firm under Monopoly Monopolistic Competition : Equilibrium of a firm under monopolistic competition, debate over role of advertising (topics to be taught using case studies from real life examples) Oligopolistic Markets : Key attributes of oligopoly – Collusive and non collusive oligopoly market – Price rigidity – Cartels and price leadership models (with practical examples) 5. Pricing Practices Cost oriented pricing methods: cost – plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing – transfer pricing (case studies on how pricing methods are used in business world)		Advanced Economic Theory by H.L.Ahuja	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya DEPARTMENT: Accounting and Finance CLASS: FYBAF

SEMESTER: II SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Inventory valuation	6		chalk and duster
2	capital and revenue : expenditure and receipt	4		chalk and duster
3	accounting for hire purchase	10		chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT 1 ACCOUNTING STANDARDS ISSUED BY ICAI AND INVENTORY VALAUATION	**Inventory Valuation** Meaning of Inventories Cost for Inventory Valuation Inventory Systems: Periodic Inventory System and Perpetual Inventory System	1	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Valuation: Meaning and Importance Methods of Stock Valuation as per AS-2 FIFO and Weighted Average Method	2		
	Practical Illustrations	5		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 FINAL ACCOUNTS	Expenditure: (a) Capital (b) Revenue Receipts: (a) Capital (b) Revenue Adjustments and Closing Entries	5	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 ACCOUNTING FOR HIRE PURCHASE	Meaning, Calculation of Interest	2	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Accounting for hire purchase transactions by assets purchase method base on full cash price	3		
	Journal Entries, Ledger Accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	4		
	Practical Illustrations	6		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: FINANCIAL MANAGEMENT (I) DEPARTMENT: ACCOUNTING & FINANCE

CLASS: FYBAF SEMESTER: I MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 TYPES OF FINANCING	Introduction, Needs of Finance and Sources: Long Term, Medium Term, Short Term	02	FINANCIAL MANAGEMENT BY RAVI & KISHORE	• Chalk • Board • Discussion • Examples • Google Classroom
	Introduction, Needs of Finance and Sources: Long Term, Medium Term, Short Term	02		
	Long Term Sources of Finance	02		
	Short Term Sources of Finance	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT4: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV **SUBJECT:** FINANCIAL MANAGEMENT (I) **DEPARTMENT:** ACCOUNTING & FINANCE **CLASS:** FYBAF **SEMESTER:** I **MONTH:** SEPTEMBER- OCTOBER **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 COST OF CAPITAL	Introduction Definition and Importance of Cost of Capital	01	FINANCIAL MANAGEMENT BY RAVI & KISHORE	• Chalk • Board • Discussion • Examples • Google classroom
	Measurement of Cost of Capital, WACC	02		
	Practical Illustrations	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 5: 09

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Seema Sihana DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I SUBJECT: FC I MONTH: August to December 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To make the students socially aware of the societal problem and their personality.
The learners will be able to: to understand the overall stratification of the society.
The learners will be able to: to understand the Indian constitution and its importance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FC I	Module-I Multi-cultural diversity and Indian society through its demographic composition: population distribution according to religion, caste, and gender, Appreciate the concept of linguistic diversity in relation to the Indian situation: Understand regional variations according to rural, urban and tribal characteristics Understanding the concept of diversity as difference.	05	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom
	Module II- Concept of disparity-1 1. Understanding the concept of disparity as arising out of stratification and inequality 2. Gender Ratio, Gender Discrimination	10	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom

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	3. Violence against women 4. Female foeticide 5. Portrayal of women in media 6. Inequalities faced by people with disabilities and understand the issues of people with disabilities.			
	. Module III- Concept of disparity-2 Examine inequalities manifested due to the caste system and inter group conflicts arising there of Understanding inter group conflicts arising out of communalism Causes and effects of communalism, regionalism, linguistic casteism Unit - 4 The Indian Constitution Philosophy of the Constitution as set out in the Present, The structure of the Constitution - the Preamble, Main Body and Schedules Fundamental Duties of the Indian Citizen, tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society Basic features of the Constitution Unit - 5: Significant Aspects of Political Processes The party system in Indian political Local self-government in urban and rural areas The 73 and 74 Amendments and their implications for inclusive politics Role and significance of women in politics Topics for Project Guidance : Growing Social Problems in India	10 10 10	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Pranali Prabhakar Gurav ______DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT:Cost Accounting. MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
OVERHEAD	Overheads the concept Classification of overhead on different bases. Apportionment and Absorption of overheads	15	Manan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: BUSINESS COMMUNICATION II MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	5	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants,	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM

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	Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference **Modern Methods:** Video and Tele – Conferencing **Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR			
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM
4) Language and Writing Skills	**Reports:** Parts, **Types** - Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF - MR. SNEHAL S PATIL **DEPARTMENT:** Accounting and Finance **CLASS**:FYBAF **SEMESTER**: II

SUBJECT: BUSINESS COMMUNICATION – II **MONTH**: December to May **ACADEMIC YEAR**: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference	12	Manan Prakashan, Vipul Prakashan	Black Board, Chalk

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	Modern Methods: Video and Tele – Conferencing			
2) Group Communication	**Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR	03	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
4) Language and Writing Skills	**Reports:** Parts, **Types -** Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15*4=60

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Mr. Snehal S Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita A Raut DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: II

SUBJECT: FINANCIAL ACCOUNTING MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn the concepts of Branch Account and consignment Account.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.Branch Accounting	Branch Accounting Dependent Br. and Independent Br. , Debtors method = journal entry, ledgers, 2 practical questions Stk and Debtors method = journal entry, ledgers, 4 practical questions	12	Manan prakashan Internet	Chalk and Duster, Google classroom, Ms. excel, Ms word.
2.Consign ment Accounting	Consignment Accounting Introduction, consignor - consignee concept, consignment and sales distinguish, del credere commission, journal entry, ledgers, 5 practical questions.	14	Manan prakashan Internet	Chalk and Duster, Google classroom, Ms. excel, Ms word.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 26

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___Vishal Sawant______ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: FINANCIAL ACCOUNTING MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: calculate the value of claim for fire insurance, prepare final Account.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.	Fire Insurance = Introduction , concept, definition of loss, Insurance, salvage value, etc. Format of Memorandum Trading Account, formulas for calculation of claim amount, 7 practical questions.	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
2.	Accounting from incomplete records = Introduction of single entry and double entry system, calculations of missing Amt, preparation of ledgers, format of final Account, 5 practical questions.	15	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 25

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT:FOUNDATION COURSE II MONTH: December To May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	Globalisation & Indian Society Concepts of liberalization, privatization and globalization Growth of information technology and communication and its impact manifested in everyday life Impact of globalization on industry: changes in employment and increasing migration Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	5	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

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UNIT 2	Human Rights a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights d] Fundamental Rights in Constitution	10	Book by Manan publications/Inter net	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM
UNIT 3	Ecology a] Concept of environment & ecology b] Importance of environmental studies, Environment as a Natural capital & quality of human life c] Environmental Degradation. i. Causes ii. Impact on human life d] Sustainable Development i. Concept ii. Components e] Poverty & Environment	10	Book by Manan publications/Inter net	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

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UNIT 4	Understanding Stress & Conflicts Causes of stress & Conflicts in individual & society, Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotyping & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	5	Book by Manan publications/Inter net	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM
UNIT 5	Managing stress & conflict in Contemporary Society Types of conflicts and use of coping mechanisms for managing individual stress Maslow's theory of self-actualisation, Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	3	Book by Manan publications/Inter net	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT : 33

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Regulaory Framework MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: The learners will be able to know the meaning of the terms Agreement and contract and note the Distinction between the two.

The learners will be able to know the Concept of Indemnity & Guarantee, Difference between contract of indemnity and contract of Guarantee.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 **The** Indian contract Act, 1872,	Nature of contract, Classification of contract, Offer and Acceptance, Capacity of parties to the contract, Free Consent, Consideration, Legality of object, Agreement declared void, performance of contract, Discharge of contract, Remedies for breach of contract, Indemnity, Guarantee, Bailment and Pledge, Agency.	14	The Indian Contract Act,1872 -Avtar singh	Lecture and Discussion Black Board, Chalk, Duster
Module 2 The Sale of Goods Act, 1930	Formation of contract of sale, Goods and their classification, Price, Conditions and warranties, Transfer of property in goods, performance of the contract of sales, unpaid seller and his rights, Sale by Auction, Hire purchase Agreement.	12	Business Regulatory Framework	Lecture and Discussion Black Board, Chalk, Duster

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			Kalaivani venkataraman, Vipul prakashan	
Module 3 Negotiable instrument Act, 1881	Definition of Negotiable instrument, features of Negotiable instrument, Promissory note, Bill of exchange and Cheque, Holder and Holder in the Due Course, Crossing of a Cheque, Dishonour and Discharge of negotiable Instrument.	12	Business Regulatory Framework Kalaivani venkataraman, Vipul prakashan	Lecture and Discussion Black Board, Chalk, Duster
Module 4 The consumer protection Act, 1986	Salient Feature, Definition of consumer, Deficiency in service, Defect in Goods	10	Business Regulatory Framework Kalaivani venkataraman, Vipul prakashan	Lecture and Discussion Black Board, Chalk, Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 48

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachya DEPARTMENT: Accounting and Finance CLASS:FYBAF

SEMESTER: II SUBJECT: Business Law - I MONTH: January - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	**Law of contract,1872**	15		Chalk and Duster
2	**The sale of Goods Act,1930**	15	Vipul's prakashan	Chalk and Duster
3	**Negotiable instrument's Act,1881**	10		Chalk and Duster

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4	**The Consumer protection Act,1986**	**10**		**Chalk and Duster**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Sarita Panigrahy DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: Business Maths MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Skills and Value, Learning objectives Curriculum Communicate

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit -I	Ratio ,Proportion and Percentage- Define,Continue Ratio,Inverse Ratio Proportion,- Continued ,Direct Proportion, Inverse Proportion,Variation and Percentage	10	Fundamentals Of Statistics-S. C. Gupta	Lecture Method, Interactive and Participative Methods
Unit -II	Profit and Loss - Term and formula ,Trade Discount ,Cash Discount,Problems involving cost Price ,Selling Price ,trade discount ,Brokerage .	12	Fundamentals Of Statistics-S. C. Gupta	Discussion method , Preparation and Delivery of Lecture
Unit -III	Interest and Annuity (Elementary Financial Mathematics) : Simple and Compound Interest ,EMI, Annuity immediate	12	Fundamentals Of Statistics-S. C. Gupta	Chalk Duster Method, Demonstration lesson
Unit - IV	Shares and Mutual Fund - Concept ,face value , Market value, dividend, Equity shares ,simple problem on calculation of net income after consider , exit and entry load ,net asset value	15	Fundamentals Of Statistics-S. C. Gupta	Study Assignment Method Seminar Method

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 49

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : LEJESH KELOTH DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: III

SUBJECT: BUSINESS ECONOMIC MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Introduction to Macroeconomics ♦ Macroeconomics : Meaning, Scope and Importance ♦ Circular Flow of Aggregate Income and Expenditure : Closed and Open Economy Models ♦ The Measurement of National Product : Meaning and Importance – Conventional and Green GNP and NNP Concepts – Relationship Between National Income and Economic Welfare ♦ Short run Economic Fluctuations : Features and Phases of Trade Cycles ♦ The Keynesian Principle of Effective Demand : Aggregate Demand and Aggregate Supply – Consumption Function – Investment Function – Effects of Investment Multiplier on Changes in Income and Output	(15 Lec.) (15 Lec.)		

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	2. Money, Inflation and Monetary Policy ♦ Money Supply : Determinants of Money Supply – Factor influencing Velocity of Circulation of Money ♦ Demand For Money : Classical and Keynesian Approaches and Keynes' Liquidity Preference Theory of Interest ♦ Money and Prices : Quantity Theory of Money – Fisher's Equation of Exchange – Cambridge Cash Balance Approach ♦ Inflation : Demand Pull Inflation and Cost Push Inflation – Effects of Inflation – Nature of Inflation in a Developing Economy ♦ Monetary Policy : Meaning, Objectives and Instruments, Inflation Targeting 3. Constituents of Fiscal Policy ♦ Role of Government to provide Public Goods – Principles of Sound and Functional Finance ♦ Fiscal Policy : Meaning, Objectives – Contra Cyclical Fiscal Policy and Discretionary Fiscal Policy ♦ Instruments of Fiscal Policy : Canons of Taxation – Factors Influencing Incidence of Taxation – Effects of Taxation – Significance of Public Expenditure – Social Security Contributions – Low Income Support and Social Insurance Programmes – Public Debt – Types, Public Debt and Fiscal Solvency, Burden of Debt Finance ♦ Union Budget : Structure – Deficit Concepts – Fiscal Responsibility and Budget Management Act	(15 Lec.)		

	4. Open Economy : Theory and Issues of International Trade ♦ The Basis of International Trade : Ricardo’s Theory of Comparative Cost Advantage – The Hecksher-Ohlin Theory of Factor Endowments – Terms of Trade – Meaning and Types – Factors Determining Terms of Trade – Gains from Trade – Free Trade versus Protection ♦ Foreign Investment : Foreign Portfolio Investment – Benefits of Portfolio Capital Flows – Foreign Direct Investment – Merits of Foreign Direct Investment – Role of Multinational Corporations ♦ Balance of Payments : Structure – Types of Disequilibrium – Measures to Correct Disequilibrium in BOP ♦ Foreign Exchange and Foreign Exchange Market : Spot and Forward Rate of Exchange – Hedging, Speculation and Arbitrage – Fixed and Flexible Exchange Rates – Managed Flexibility	(15 Lec.)		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Gurav DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: III SUBJECT:

MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
1) Understand & Remember- the meaning of salary; section 10, sections 15-17; calculation of income from salary; various allowances (taxable, partly taxable, non-taxable); perquisities; rules and calculation of Gratuity, Pension, Leave encashment.
2) Understand & Remember- the meaning of income from other sources; sections 56-59; calculation of income from other sources.
3) Understand & Remember- the meaning of capital gains; Section 45, 48, 49, 50, 54 and 55, calculation of capital gains.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Income from Salary	10	Book by Manan publications/Internet	Google Classroom, chalk and Board
Unit 2- Heads of Income	Income from Other Sources	8	Book by Manan publications/Internet	Google Classroom, chalk and Board
	Capital Gains	10	Book by Manan publications/Internet	Google Classroom, chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 28

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Pandey DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: Business Law MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

The pupils will be able to learn about the contract Act, where they will learn the concept of contract, essentials and types and rules regarding the contract

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Section 2 Clause(2), (7), (13), (31), (41),(42),(47), (48),(62),(85)	Accounting Standard, Auditing Standard, Books of Accounts, Deposits, Financial Year, Foreign Company, Independent Director, Indian Depository Receipts, One Person Company, Small Company	15	MANAN PRAKASHAN	Chalk and Board
Incorporation to Companies Section 3 to Section 20	Incorporation of Company and matters Incidental Thereto, Exemptions and Privileges available to Private Company, Restrictions relating to a private company, Provisions applicable to one person company, MOA and AOA	15	MANAN PRAKASHAN	Chalk and Board, Group Discussion
Public Offer Section 23, 25 to 28, 33, 35, 39	Public Offer, Prospectus, Types, Issue of application forms for securities, Civil liability for Mis-statemements in Prospectus, Allotment of securities by Company	15	MANAN PRAKASHAN	Chalk and Board, Case Studies

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Private Placement Section 42	What_is Private Placement, Amendment in Private Placement Rules	2	MANAN PRAKASHAN	Chalk and Board
Share Capital and Debentures Section 43, 46, 47, 52 to 56, 61 to 72	Kinds of Share Capital, Shares and Debentures as movable property, Distinction number to shares, Certificate of Shares, Voting Rights, Application of Premiums received on issue of shares, Sweat Equity, Power of limited Company to alter its shares capital	13	MANAN PRAKASHAN	Chalk and Board, Cade Studies, Group Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Pranali Prabhakar Gurav _____ DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT:Business Law. MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	Chalk and board
	Unit : 1 Definitions 1. Section 2 2. Clause (2) Accounting Standard 3. Clause (7)- Auditing Standard 4. Clause (13) Books of Accounts 5. Clause (31) Deposit 6. Clause (41) Financial Year 7. Clause (42) Foreign Company 8. Clause (47) Independent Director 9. Clause (48) Indian Depository Receipts 10. Clause (62) - One Person Company 11. Clause (85) Small Company	15	Manan & Vipul Publicatio	Chalk and board

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Business Law	Unit 2 : Incorporation of Companies Section 3 to Section 20 Unit 3 : Public Offer 1. Sections 23, 25 to 28, 33, 35, 39	30	Manan & Vipul Publicatio	Chalk and board
	Unit 4 : Private Placement 1. Section 42 Unit 5 : Share Capital and Debentures Sections 43, 46, 47, 52 to 56, 61 to 72	30	Manan & Vipul Publicatio	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 75

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VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Singh

DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV SUBJECT: Foundation Course in Management

MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to learn the varied management concepts as well as they will be taught the basic functions of management at each level which will make them ready for the corporate world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	Introduction to Management Nature, importance, Principles of management, levels of Management.	10	Henry Fayol Administration and Management	Chalk and Duster, Google Classroom , Videos
Unit 2	Planning Nature , importance, benefits and drawbacks , steps of Planning, essential of good plans, Decision Making	10		
Unit 3 Unit 4	Organising Nature Benefits Importance Formal and Informal Organisation Centralisation and Decentralisation Delegation of Authority Departmentation. Staffing, Recruitment, Employment Test, Types of Interviews			

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Unit 5	Directing Importance, Benefits Motivation, Factors of Motivation Controlling Steps in Controlling Essential of a Good control System			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Seema Sihana DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV SUBJECT:

MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: To enable students to obtain basic knowledge and skills required in the field of Management.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MANAGE MENT	INTRODUCTION TO BASIC MANAGEMENT CONCEPTS:- Introduction and definition of management, nature and objectives of management, administration vs management, levels and principles of management. PLANNING:- Definition, Importance, Process, Limitations of Planning, Features of Sound Planning, Features and Process of Decision making. ORGANISING:- Definition, Nature and Significance, Process, Principles of Organisation, Formal and Informal Organisation- Features, Advantages and Disadvantages, Centralisation and Decentralisation- Factors, Merits and Demerits, Departmentation and Delegation. STAFFING:- Meaning and Importance, Recruitment and its Sources, Selection Procedure, Distinguish between Recruitment and Selection,	05 10 10 10	The Practice of Management by Peter Drucker. Management: Principles and Practice by S.K.Mandal.	Chalk and Duster, PPT, Google Class room

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		10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Megha Kulkarni **SUBJECT: Information Technology** **DEPARTMENT: Accounting and Finance**

CLASS: SYBAF **SEMESTER:VI** **MONTH:Jan-feb** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I & II Business Process,	Introduction, Definition & meaning of Business Process ,Flow of business process for accounting, purchase, sales and finance Classification of business processes, Introduction, Definition and Meaning of Business Process Management, Principles and practices of Business Process Management Business Process Management life cycle, Theories of Business Management Process, Implementation of Business Process Management - need, key factors and importance, Automation of business Processes - benefits, risks, challenges, Accounting systems automation, IT and Business Process Management , Information Systems - Meaning, Use of IT in Accountancy	15	Information Technology in Accountancy - II by Verus D’sa, Internet source.	Chalkboard method, discussion, debates.

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Computerized Accounting System	Introduction and Meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports.	20		
	Accounting Software: Introduction and meaning, Advantages of Accounting Software, Use of Accounting Software, Various Accounting Softwares, Accounting Software Tally.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Megha Kulkarni **SUBJECT:Information Technology** **DEPARTMENT: Accounting and Finance**

CLASS: SYBAF **SEMESTER:VI** **MONTH: March-April** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III & IV Concept of MIS Report in computer Environment & IT And Auditing	Introduction, concept of MIS, Need for MIS , Characteristic of MIS , Outputs of MIS, Role of MIS, Guidelines for developing MIS reports, Functional Aspects of the MIS , Problems in MIS , Knowledge required for studying MIS, MIS and Computer.	15	Information Technology in Accountancy II Verus D’Sa, Internet source.	Chalkboard method, discussion, debates.
	Need and importance of IT in Auditing,Auditing in It Environment.	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Devnath_Rajput **DEPARTMENT:** Commerce (Self- Finance) **CLASS :** SYBAF

SEMESTER: IV **MONTH:** November - May **ACADEMIC YEAR:** 2022- 2023 **SUBJECT:** Information Technology in ACC.FIN

LEARNING OBJECTIVE/S:

The learners will be able to: To gain the knowledge of various business process, how to use computerized accounting software, how manage information and little introduction to IT & auditing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

UNIT - I Business Process	**Introduction, Definition and Meaning of business process Flow of business process for accounting, purchase, sales and finance Classification of business processes Introduction, Definition and Meaning of Business Process Management Principles and practices of Business Process Management Business Process Management life cycle Theories of Business Management Process Implementation of Business process Management – need, key factors and importance Automation of business Processes – benefits, risks, challenges Accounting systems automation IT and Business Process Management Information systems – Meaning, Use of IT in accountancy.**	**15**	**Information Technology in Accounts and Finance By- Rimple Sanchla, Manan Publications. and www.wikipedia.com**	**Board , Chalk and Duster**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

UNIT - II **Computerized accounting system**	**A) Introduction and meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system.**	**05**	**Information Technology in Accounts and Finance By- Rimple Sanchla, Manan Publications. and www.wikipedia.com**	**Board , Chalk and Duster**
	B) Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports.	**07**		
	C) Accounting Software Introduction and meaning Advantages of accounting software Uses of Accounting software Various accounting software.	**05**		
	D) Accounting software TALLY – Accounting and reports.	**03**		

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Concept of MIS Reports in Computer Environment	A) Introduction Concept of MIS Need for MIS Characteristic of MIS.	05	I.T in Accounts and Finance By- Rimple Sanchla, Manan Publications.& www.wikipedia.com	Board , Chalk and Duster
	B) Outputs of MIS Role of MIS Guidelines for Developing MIS reports Functional Aspects of the MIS.	05		
	C) Problems in MIS Knowledge required for studying MIS, MIS and Computer.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV IT and Auditing	Need and importance of IT in auditing Auditing in IT environment.	10	I. T in Accounts and Finance By- Rimple Sanchla, Manan Publications. & www.wikipedia.com	Board , Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF. MEGHA NAIK. DEPARTMENT: ACCOUNTANCY CLASS: S.Y.BAF (DIV A,B & C) SEMESTER: IV

MONTH: NOV to MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: APPLY THESE MANAGEMENT ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction To Management Accounting Analysis & Interpretation of accounts	Introduction to Management Accounting Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Management Accounting – M.Y. Khan. Management Accounting – I. M. Pandey. Cost & management accounting – Colinn Dury	Chalk & Duster Google classroom, PPT

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Financial statement Analysis: Ratio Analysis	**Ratio Analysis** · **Balance Sheet Ratios** · **Revenue Statement Ratios** · **Composite Ratios**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**
Working Capital Management	**Concept, nature, planning of working capital** **Estimation / projection of working capital mgmt.** **Operating cycle practical problems**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**
CASH FLOW MGMT	**Preparation of cash flow statement –with reference to AS 3 (Indirect method only)**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6 0

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Karishma Kale______ DEPARTMENT: Accounting and Finance CLASS: SYBAF: A,B,C SEMESTER: IV

SUBJECT: Research Methodology MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Have knowledge of the basic content related to Research and its conduction process, different methods and types related to research and basics of preparation of research report.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Introduction to Research	Meaning of Research, Features of Research, Objectives of Research, Importance of Research in Accounting and Finance, Types of Research, Stages in Research process, Steps in formulation of research problem, Factors influencing selection of research problem, Sources of research problem, Review of literature,	5	Manan Prakashan, Sheth Publications	Chalk and duster
2. Research Design in accounting and Finance	Meaning, Need and importance of Research Design, Essentials of a good research design, Types of Research Design, Sources of Hypothesis, Steps in formulation of hypothesis, Importance of Hypothesis, Types of hypothesis	5	Manan Prakashan, Sheth Publications	Chalk and duster
3. Data Collection and Processing	Meaning and types of Data, Factors influencing choice of data collection, Primary Data- Methods: Experimentation, Interview, Survey Schedule and Questionnaire Advantages and limitations Secondary Data- Sources, Advantages and limitation Sampling- Significance, methods, Factors determining sample size	7	Manan Prakashan, Sheth Publications	Chalk and duster

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	Data Processing: Significance, Stages in Data processing Sums			
4. Interpretation and Report writing	Meaning, Methods of Data Interpretation Report writing, Importance, Essentials of a good report, Structure of research report , TYpes of research report	4	Manan Prakashan, Sheth Publications	Chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 21

Karishma Kale

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: RESEARCH METHODOLOGY MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Research Methods in Business & Accounting.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	· Introduction to Research Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research-Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem: Meaning and Selection Review of Literature	**8**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Unit 2	Research Design in Accounting and Finance Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types Different Research designs	**7**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**
Unit 3	Data Collection and Processing Data Collection: Introduction and meaning, types of data Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data Secondary data: Sources and Limitations Factors affecting the choice of method of data collection. Sampling: Significance, Methods, Factors determining sample size	**4**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

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	Data Presentation: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis. Use of computer and internet in data collection and processing.			
Unit 4	Interpretation and Report Writing Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/layout, Types	**5**	**C.R.Kothari, “Research Methodology - Methods & Techniques” , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______________________ DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Clubbing Of income	5	Sheth/Manan/ ICAI books	Chalk -Board
2	Set off and carry forward	5		Chalk -Board
3	Computation if tax liability of partnership Firm	8		Chalk -Board
4	Computer of tax liability of an individual	8		Chalk -Board

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5	Return of Income	4		Chalk -Board
6	Advance Tax and Interest	6		Chalk -Board
7	TDS	4		Chalk -Board
8	Ethics in Taxation	3		Chalk -Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya DEPARTMENT: Accounting and Finance CLASS: SYBAF

SEMESTER: IV SUBJECT: Direct Tax MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	**Clubbing of income**	08		Chalk and Duster
2	**Set Off**	08		Chalk and Duster
3	**Computation of tax liability of individual & HUF**	08		Chalk and Duster
4	**Computation of income of partnership firm**	08	Ainapure, Manan Prakashan	Chalk and Duster

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5	**Return of income section 139**	**03**		**Chalk and Duster**
6	**Deduction of tax at sources**	**04**		**Chalk and Duster**
7	**Advance tax and interest**	**04**		**Chalk and Duster**
8	**DTAA U/S 90 & 91**	**04**		**Chalk and Duster**
9	**Tax planning & ethics in taxation**	**03**		**Chalk and Duster**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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VidhyaDayanandPatil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Integrated and non integrated system	Integrated Accounting system = Introduction, concept of cost Accounting and Accounting, reason behind the difference between cost and accounting Profits. Journal entry, ledgers, 6 practical questions .	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
	Non Integrated Accounting System = Introduction, difference between integrated and non integrated system, journal, ledgers, 5 practical questions.	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
Activity Based Costing system	Introduction, definition, format, 5 practical questions	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:__Pranali Prabhakar Gurav ____________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF

SEMESTER:V SUBJECT:Financial Accounting V MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit : 1 AS-14-Amalgamtion, Absorption and External Reconstruction (Excluding Inter-Company holdings) 1. In the nature of merger and purchase with corresponding accounting treatment of pooling of interests and purchase method respectively. 2. Meaning and Computation of Purchase Consideration. 3. Problems based on Purchase Method only.	20	Manan & Vipul Publication	Chalk Board
Financial Accounting 5	Unit 4 : Underwriting of Shares and Debentures. 1. Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of Underwriting 1. Introduction, Underwriting, Underwriting Commission	15	Manan & Vipul Publication	Chalk Board

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	Provision of Companies Act with respect to Payment of Underwriting commision			
	2. Underwriters, Sub-Underwriters, Brokers and Manager to Issues 3. Types of Underwriting, Abatement Clause 4. Marked, Unmarked and Firm-Underwriting Applications, 5. Liability of the Underwriters in respect of Underwriting 6. Contract Practical Problems			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Shruti Basare_. _ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT:Financial Accounting V MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Buy Back of Shares Company Law/Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions) Compliance of conditions including sources, maximum limits and debt equity ratio.Cancellation of Shares Bought back (Excluding Buy Back of minority shareholding) Practical Problems	10	Manan	Chalk and board
Financial Accounting V	2.Internal Reconstruction Need for reconstruction and company law provisions Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. Practical Problems	15	Manan	Chalk and board

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	3.Liquidation of Companies Meaning of liquidation or winding up Preferential Payments Overriding preferential payments Preparation of statement of affairs, deficit/ surplus account Liquidator's Final Statement of Account Practical Problems	15	Manan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tarika Patel DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL ACCOUNTING VI MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 FINAL ACCOUNTS OF BANKING COMPANY	Legal provision in Banking Regulation Act, 1949 relating to Accounts, Statutory reserves including Cash Reserve and Statutory Liquidity Ratio.	2	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Bill purchase and discounted, rebate of bill discounted, Non–performing assets and Income from non–performing assets.	3		
	Classification of Advances, standard, sub–standard, doubtful and provisioning requirement.	1		
	Final Accounts in prescribed form	1		
	Capital Adequacy	2		
	Practical Illustrations	6		

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YashvantKeshavPatil College of Commerce
VidhyaDayanandPatil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tarika Patel DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL ACCOUNTING VI MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 FINAL ACCOUNTS OF INSURANCE COMPANY	General Insurance – Various types of insurance, like fire, marine, Miscellaneous, Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance	4	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Final Accounts in a prescribed form. Revenue Statement – Form B – Revenue Account, Profit / Loss Account – Form B – Profit & Loss and Balance Sheet Form B – BS	3		
	Practical Illustrations	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___KALPANA JAIN___________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL MANAGEMENT MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1- STRATEGIC FINANCIAL MANAGEMENT	Introduction. Corporate Planning Financial Planning Profit Maximization Wealth Maximization Relationship of Finance to Economics and Accounting Role of Financial Manager	06	Khan and Jain	Chalk and Duster
2- CAPITAL BUDGETING - PROJECT PLANNING AND	Introduction Capital Budgeting Process Techniques of Capital Budgeting Evaluation Capital Rationing Risk Evaluation In Capital Budgeting	12	Prasanna Chandra	Chalk and Duster

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RISK ANALYSIS	Risk Management Practical Questions			
3- CAPITAL STRUCTURE THEORIES AND DIVIDEND DECISIONS	Introduction Cost of Capital Practical Questions on Cost of Capital Introduction to Capital Structure Theories Net Income Approach Modigliani -Miller (MM) Approach Trade-Off Theory Pecking -Order Theory Traditional Approach	12	Dr.S.P.Gupta	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_Pranali Prabhakar Gurav __________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT:Financial Management. MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1.Mutual Fund and Bond Valuation Introduction to Mutual Fund- History & Origin, Definition, Meaning, Characteristics Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund Entities involved - Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India. Classification of Mutual Fund Functional/OperationalInterval, Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns - Yield to Maturity, Yield to calland Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)	15	seth publications and Manan prakashan	Chalk and Board

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Financial Manageme nt	**Credit Management** Credit Management Terms of Payment, Credit Policy Variables, Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India	15	Seth publication s and Manan prakashan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Gauri Yadav DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V SUBJECT:

MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
5.INPUT TAX CREDIT & COMPUTATION OF GST	ELIGIBILITY CONDITIONS FOR ITC, APPORTIONMENT OF CREDIT & BLOCKED CREDITS ,CREDIT IN SPECIAL CIRCUMSTANCES, COMPUTATION OF GST UNDER INTERSTATE & INTRASTATE SUPPLY ILLUSTRATION	19	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	CHALK-BOARD
6.REGISTRATION	Person liable for registration, Person not liable for registration, Procedure for Registration, Deemed Registration, Amendment, Cancelation and Revocation of Registration, Illustration.	13	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	CHALK-BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Heena Obaid Qureshi DEPARTMENT: Commerce CLASS: SYBBI. SEMESTER: IV SUBJECT:Cost Accounting

MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE:The learner will able to understand the concept and accounting process of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introductions to Cost	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
2	Classification of Cost	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
3	Marginal Costing	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board

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4	standard Costing	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
5	cost sheet			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_______REENA BEHERA_______________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN ECONOMY MODULE I,II,III,IV	1. Introduction, Agricultural Sector Introduction Demographic Features – Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure – Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing National agricultural policy 2. Industrial Sector	4 lectures per week DIV A,B,C	V.K. Puri S.K. Misra: Indian Ecomomy Datt & Sundaram: Indian Economy Uma Kapila: Indian Economy	Chalk and Duster Method Group Discussion Task Assignment ICT Tools usage

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	Growth and pattern of industrialization Industrial Policy of 1991, Public sector enterprises and disinvestment policy Small scale sector – problems and prospects 3. Service Sector, External Sector Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and Directions of Foreign Trade India’s Balance of Payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO 4. Money and Banking Money Market and its Features Monetary Policy of RBI Progress of Commercial Banking in India Development of Capital Markets SEBI and its Functions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Asis Almeida DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI SUBJECT: Financial Accounting VII MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1. To understand the concept of the below given topics
2. To solve numerical problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit 1 : Final Account for Electricity Company			
Financial Accounting – VII	1) Final Accounts as per Double Account System Final Accounts as per Electricity Rules Receipt & Expenditure on Capital Account General Balance Sheet Contingency Reserve 2) Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus 3) Replacement of Assets **Practical Problems (08)**	08	Manan Prakashan	Chalk & Duster, Group Discussion.

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	Unit 2: Final Account for Co-operative Society **(Co-operative Housing Society and Consumer Co-operative Society)** 1. Provisions of Maharashtra State Co-operative societies act and rules. 2. Format of Final Accounts- Form N 3. Simple Practical problems on preparation of Final Accounts of a co-operative housing society & consumer co-operative society. **Practical Problems (08)**	08	Manan Prakashan	Chalk & Duster, Group Discussion.
	Unit 3 : Investment Accounting (w.r.t. Accounting Standard- 13) 1) For shares (variable income bearing securities) 2) For debentures/Preference. shares (fixed income bearing securities) 3) Accounting for transactions of purchase and sale of investments with ex and cum 4) interest prices and finding cost of investment sold and carrying cost as per 5) weighted average method (Excl. brokerage). 6) Columnar format for investment account.	08	Manan Prakashan	Chalk & Duster, Group Discussion.
	Unit 4: Mutual Funds. 1. Introduction, historical background , SEBI guidelines, NAV scheme , types of mutual fund schemes, FOF schemes, Load or non load scheme. 2. Investment valuation norms, pricing of units, contents of balance sheet and revenue account, evaluation of mutual funds, disposal of investments, recognition of income, accounting policies and entries. **Practical Problems (07)**	04	Manan Prakashan	Chalk & Duster, Group Discussion.

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	Unit 5: Introduction to IFRS 1) Accounting standards 2) Indian Accounting standards (Ind AS) 3) Comparison of Ind AS, IFRS and AS	03	Manan Prakashan	Chalk & Duster, Group Discussion.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 31

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1 Business Valuation	Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation , Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.	7	Financial Management By Ravi M Kishore	Chalk Board And Discussion Method
	Practical Illustrations	8		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT 2 Mergers and Acquisitions	Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger. Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers	7	Financial Management By Ravi M Kishore	Chalk Board And Discussion Method
	Practical Illustrations	8		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 3 **Corporate Restructuring and Takeovers**	**Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring.**	**7**	**Financial Management By Ravi M Kishore**	**Chalk Board And Discussion Method**
	Practical Illustrations	**8**		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 4 **Lease and Hire Purchase Financing**	**Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease. Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments. Choice between Leasing and Hire Purchase**	**7**	**Financial Management By Ravi M Kishore**	**Chalk Board And Discussion Method**

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	Practical Illustrations	**8**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 5 **Working Capital financing**	**Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring. Practical Problems based on Factoring and calculations of yield of CP's and CD'se**	**10**	**Financial Management** **By**	**Chalk Board** **And** **Discussion Method**

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			Ravi M Kishore	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.PAYMENT OF TAX & REFUNDS	PAYMENT OF TAX,INTEREST AMOUNT	01	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	TDS, TCS, REFUND OF TAX, INTEREST ON DELAYED PAYMENTS, Types of Returns and Provisions relating to filing of Returns	04		
	INTEREST ON DELAYED REFUNDS	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2.ACCOUNTS, AUDIT, ASSESSMENT & RECORDS	ELECTRONIC WAY BILL,SELFASSESSMENT,	01	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	Scrurinty of returns, non-filler of returns	02		
	ASSESSMENT OF UNREGISTERED PERSON, ASSESSMENT IN SPECIAL CASES, special audit,	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
3. .CUSTOM ACT- I	INTRODUCTION TO CUSTOM LAWS, EXEMPTION FROM CUSTOM DUTY, TAXABLE EVENT	02	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	CHARGES OF CUSTOM DUTY, TYPES OF CUSTOM DUTIES,	02		
	VALUATION OF IMPORTED & EXPORTED GOODS	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4. CUSTOM ACT-II	ALL IMPORT EXPORT PROCEDURES, PROCEDURE RELATED TO BAGGAGE	04	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	GOODS IMPORTED & EXPORTED BY POST & STORES, PROVISIONS RELATING TO COASTAL GOODS	04		
	WAREHOUSING & DRAWBACK	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Heena Obaid Qureshi DEPARTMENT: Commerce CLASS: SYBBI. SEMESTER: IV SUBJECT:Cost Accounting

MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE:The learner will able to understand the concept and accounting process of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introductions to Cost	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
2	Classification of Cost	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
3	Marginal Costing	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board

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4	standard Costing	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
5	cost sheet			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ambari Patwardhan DEPARTMENT: SFC CLASS: FYBBI (A, B, C) SEMESTER: II MONTH: December to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law

The learners will be able to : The pupils will be able to learn about the contract Act, where they will learn the concept of contract, essentials and types and rules regarding the contract

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Law	Meaning, Definitions , Features, Types, Sources and classification	**1**		Black board, chalk
Indian constitution	Natural justice, special leave appeal, features writs fundamental rights	**2**		
Indian Contract Act 1872	Definition of contract and agreement, Essentials of valid contract, Classification of Contract	3	Indian contract Act by Cr. Avatar singh	Black board, chalk
	Offer , Acceptance- Rules for valid offer and Acceptance, types of offer, Revocation of offer and acceptance	3		
	Capacity to Contract – Minor, unsound mind, disqualified person	2	Indian contract Act by Cr. Avatar singh	Black board, chalk

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	Consideration – concept, importance, No consideration No contract Rule.	2		
	Consent, Free consent – Coercion, undue influence, mistake, misunderstanding.	2	Indian contract Act by Cr. Avatar singh	Black board, chalk
	Void Agreements, Contingent Contract, Quasi Contract,	2		Black board, chalk
	Modes of discharge of contract, breach of contract , Remedies for breach	2	Indian contract Act by Cr. Avatar singh	
Special Contracts	Indemnity and Guarantee, concept, essentials, modes of discharge of surety	2		Black board, chalk
	Bailment- concept, essentials, kinds, rights and duties of bailor and bailee , Pledge	2	Indian contract Act by Cr. Avatar singh	
	Agency – concept, modes, creation of agency, termination, rights and duties	2		Black board, chalk
Negotiable Instruments Act	Features, Promissory notes, bill of exchange, cheque, features, acceptance crossing, dishonour, holder, holder in due case, penalties for dishonour, endorsement.	5		Black board, chalk
Information Technology Act	Objectives , scheme, digital signature, authorization , e-governance , certifying authorities, digital certificate, cyber	2		Black board, chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Dattaram Gurav DEPARTMENT: Self Finance CLASS: T.Y.BBI (Division A, B, C) SEMESTER: VI

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

1) Understand & Remember- Concept of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Audit of Limited Companies	Qualifications, Disqualification	02	Book by Manan publications/Internet	Chalk & Board
	Audit report	02	Book by Manan publications/Internet	Chalk & Board
	Liabilities of Auditor, Duties, Rights	04	Book by Manan publications/Internet	Chalk & Board
Unit 2: Audit of Banking Companies	Financial statements, Appointment, remuneration, qualification, internal control system	6	Book by Manan publications/Internet	Chalk & Board
Unit 3: Audit of Insurance Companies	AS 3, 4, 9, 13, 17 Books & registers to be maintained	6	Book by Manan publications/Internet	Chalk & Board
Unit 4: New Areas of Auditing	Human resource management, management audit, tax audit, social audit, Forecast audit Audit in EDP Environment	6	Book by Manan publications/Internet	Chalk & Board
Unit 5: Professional	Schedules to the chartered accountants act, 1949	4	Book by Manan publications/Internet	Chalk & Board

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Ethics & Misconduct				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Sivapriya Achari DEPARTMENT: Commerce CLASS: FYBFM

SEMESTER: I MONTH: July - November ACADEMIC YEAR: 2022- 2023 SUBJECT: Business Communication

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills. The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills. To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Unit1. Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels : Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
Unit 2 - Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour			
Unit 3 : Business Correspondence	1)Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]	15	Manan Publication, Sheth Publication, Vipul Publication	Online

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Unit 4 : Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities 🕮 Listening Comprehension 🕮 Remedial Teaching 🕮 Speaking Skills: Presenting a News Item, Dialogue and Speeches 🕮 Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling. 🕮 Reading Comprehension: Analysis of texts from the fields of Commerce and Management	15	Manan Publication, Sheth Publication, Vipul Publication	Online

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bristi Gourgopal Biswas DEPARTMENT: Commerce CLASS: F.Y.FM SEMESTER: I (Subject: Business Economics I)

MONTH: August onwards ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the application of microeconomics at the corporate level.

The learners will be able to: observe microeconomics in the real world and understand and make business decisions.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Module I Introduction to business economics	Introduction, Business Economics ,basic concepts for business economic analysis functional relations and tool for economic analysis. Introduction to market demand and supply, demand-supply, market equilibrium, changes in market equilibrium.	10		Chalk and board

Module II **Demand Analysis**	Meaning of demand, the law of demand, determinants of demand, demand function, price, income and substitution effects, nature of demand curve under different markets. Meaning of elasticity, price elasticity of demand, income elasticity of demand , cross elasticity of demand, promotional elasticity of demand, importance of elasticity of demand, and the relationship between price elasticity of demand and revenue concept. Significance of demand forecasting ,types of demand forecasting, steps in demand forecasting ,methods of demand forecasting.	10		Chalk and board
Module III **Supply and production decisions and cost of production**	Concept of production, production function, isoquants ,ridge lines least cost combination of inputs ,expansion path. Types of production function ,law of variable proportions, laws of returns to scale. Meaning of economies and diseconomies of scale, Internal economies and diseconomies of scale, external economies and diseconomies of scale. Cost concepts: money cost, accounting cost and economic cost, fixed , variable and total cost , total , average and marginal cost. Cost function, short run cost output ,relationship between AC, AFC ,AVC and MC, relationship between AC and MC ,short run average cost and output, long run cost output, long run average cost curve ,long run marginal cost curve ,learning curve, long run AC and output. Concept of break even point ,variables influencing the break even point ,business application of break even analysis ,limitations of break even analysis.	12		Chalk and board
Module IV **Market structure perfect competition and monopoly**	Market structure ,types of market ,need to analyse the market structure. Perfect competition meaning and features ,short run equilibrium of the firm, long run equilibrium of the firm, equilibrium of industry and firm.	12		

and pricing and output decisions under imperfect competition	Features of monopoly ,sources of monopoly power, equilibrium of monopoly firm ,comparison between perfect competition and monopoly. Features of monopolistic competition, short run equilibrium of the firm, long run equilibrium of the firm ,selling cost and its effects, role of advertisement. Meaning of oligopoly ,characteristics of oligopoly ,collusive and non collusive oligopoly ,price rigidity ,collusive oligopoly, price leadership.			Chalk and board
Module V **Pricing practices**	Meaning of pricing practices, degrees of price discrimination, conditions for price discrimination, conditions for profitable price discrimination, equilibrium of price discriminating monopolist ,dumping. Introduction to pricing practices part II, marginal cost pricing ,cost plus pricing ,multi product pricing Transfer pricing.	10		Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 54

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRIYANKA SINGH DEPARTMENT: COMMERCE CLASS : FYBAF SEMESTER: I MONTH : JULY SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : understand the environment and its impact on Business and its activities. This helps the students to meticulously know about the functioning of the Business and its environment.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Unit 1 Business and Environment	Business objectives, dynamics of business objectives types of Business objectives, business environment components of business environment, Environmental analysis, Environmental scanning ,PESTLE Analysis SWOT Analysis	15	Business Environment by Justin Paul	Chalk and Duster
Unit 2 Business and Society	Business Ethics Nature and scope of ethics, Ethical dilemmas,Corporate Culture,Ethical climate Development of Business Entrepreneurship Entrepreneurship and business development, MSMED Act 2006, Entrepreneurship as career option Consumerism and Consumer Protection Consumerism in India and Consumer Protection Act 1986	15	Business Environment by Justin Paul	Chalk and Duster
Unit 3 Contemporary issues	Corporate Social responsibility, Responsibility towards Business and Society, Ecology, Carbon Credit, Kyoto Protocol Social Audit, Social Audit v/s Commercial Audit	15	VEENA KESHAV PAILWAR-BUSINESS ENVIRONMENT	Chalk and Duster

Unit 4 International Environment	Strategies for going global MNC's , TNC's and WTO Foreign Trade in India BOT, FDI, its implications	15	VEENA KESHAV PAILWAR-BUSINESS ENVIRONMENT	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT 1 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE CLASS: FYFM

SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Define Ratio, Continued Ratio, and Inverse Ratio and solve the questions based on these terms.
- Understand the concept of Proportion, Continued Proportion, Direct Proportion and Inverse Proportion.
- Solve the questions based on different types of Proportion and relate the situations in day to day life.
- Understand the concept of Variation, Inverse and Direct Variation and also how to differentiate between Proportion and Variation.
- Learn the meaning of Percentage and computation of Percentage.

PAPER, UNIT, TITLE			SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS MATHEMATICS	Ratio, Proportion & Percentage	Unit1	▪ Define Ratio, Continued Ratio, Inverse Ratio ▪ Problem solving on ratio ▪ Define Proportion its types. ▪ Problem solving on proportion ▪ Explanation on concept of percentage and computation of percentage.	1 1 1 1 1	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

TEACHING PLAN (UNIT 2 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Define Profit and Loss and terms related to it.
- Understand the formula of Trade discount and cash discount.
- Learn and understand the concept of Commission and Brokerage.
- Focus on how to use these terms in day to day life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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BUSINESS MATHEMATICS	Profit and Loss	Unit2	▪ Introduction to formula of Profit, Loss, %profit ,%loss ▪ Solve problems based on the above formulas ▪ Introduction to terms like trade discount, cash discount. ▪ Exercise based on cost price, selling price, trade discount, cash discount. ▪ Introduction to terms like Commission and brokerage. Solving problems based on commission and brokerage	1 2 1 2 1	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

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- Define Simple and Compound interest and its formula.
- Understand the concept of this topic and learn how to use in day to day life.
- Learn meaning of EMI, annuity and its types, also calculation of present and future value.

PAPER, UNIT, TITLE			SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS MATHEMATICS	Interest and Annuity	Unit3	▪ Introduction to the formula of Simple interest and sums based on it. Introduction to the formula of Compound interest and sums based on it monthly, quarterly, .half yearly and yearly. ▪ Introduction and sums based on EMI, reducing balance and flat rate of interest. ▪ Introduction to annuity and its types, calculation of present value and future value by using its formula. ▪ Concept on Stated annual rate and effective annual rate and solving sums based on it.	2 2 2 2	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Learn the concept of face value, market value, dividend, equity shares, bonus shares, preference shares.
- Solve the questions based on buying and selling of shares with and without brokerage.
- Define net asset value of mutual funds, entry/exit load
- Understand the concept of Systematic Investment Plan (SIP).
- Solve simple problems on calculation of net income after considering entry load and exit load change in net asset value and SIP.
- Focus and how to apply this knowledge in day to day life

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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BUSINESS MATHEMATICS	Shares and Mutual Funds	Unit4	▪ Concept of Shares, Face value, market value, dividend. Explanation of types of Shares. ▪ Sums based on Shares ▪ Concept of Mutual Funds and its types Calculation of net income after considering entry load and exit load ▪ Change in net asset value and problems based on it. ▪ Concept of SIP and sums based on it.	2 3 1 2 2	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: FYBFM

SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the concepts and practicals on Financial Statements
2) Understand the Preparation of Final Accounts of manufacturing concern and partnership firm

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 3. Introduction to Financial Statements	Bank Reconciliation statements Treatment of Capital & Revenue Depreciation Accounting; methods of recording depreciation and methods of providing depreciation as per AS-4	15	Vipul publication,seth publication	Board,Chalk ,internet
Unit 2 Preparation of Final Accounts	Final Accounts of Sole Traders- Manufacturing Account, Trading, Profit & Loss Account and Balancesheet Final Accounts of Partnership Firm, Manufacturing Account, Trading, Profit & Loss Account and Balancesheet.	15	Vipul publication,seth publication	Board,Chalk,internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:GAURI YADAV. DEPARTMENT: COMMERCE CLASS:. FYFM SEMESTER: I.

MONTH: AUG - DEC ACADEMIC YEAR : 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. NATURE & PURPOSE OF ACCOUNTING				
	Meaning and scope of Accounting: Need, development & Definition of Accounting, persons interest in Accounting disclosure, branches of accounting Accounting concepts and Accounting Standards	10	Sheth publication	Chalk & Duster
2.BOOKS OF AC	Journals, ledger, subsidiary books Trial Balance, Financial Accounting framework . Sums solved Q.1 to Q.6	20	Sheth publications,Manan prakashan	Chalk & Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Prof.Sivapriya Achari____SELF FINANCE______________ DEPARTMENT: ___FY BFM_________________________ CLASS: ___1st_________ SEMESTER: ___Semester I____________ MONTH: ___August______________ ACADEMIC YEAR: ____2022/2023

____

LEARNING OBJECTIVE/S:
The learners will be able to : _chalk and board

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1, 2and 3	1.Overview of Indian Society. Understand the multi cultural diversity of Indian society Through its demographic compostion. Religion,Caste,Gender,linguistics diversity etc 2.Concept of Disparity..1 Understand the concept of disparity,Female ,Women In media,Physical and Mental disabilities. 3.Concept of Disparity…2			

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	Examine inequalities manifested due to caste system ,communalism,Regionalism and linguistic difference.			
		8	Manan book	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____8_____

Sivapriya Achari

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Roshani Nagar DEPARTMENT: Commerce CLASS: FYBFM SEMESTER : SEM I MONTH: Aug,Sep,Oct

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To focus on the importanat aspects of preamble and study about the indian constitutions.

To study about the political process in India perspective.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4. Indian Constitution	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules;	10	Rashmi , deepa and reshma Parab	Chalk and Duster method
	Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution.4			
5. Significant Aspects of Political Process	The party system in Indian politics; Local self-government in urban and rural areas.	10		
	73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEEPA PRADEEP DALVI** DEPARTMENT: COMMERCE CLASS: FY BFM

SUBJECT: INTRODUCTION TO FINANCIAL SYSTEM SEMESTER: I MONTH: AUGUST TO OCTOBER ACADEMIC YEAR: 2022-23 .

LEARNING OBJECTIVE/S:
The learners will be able to : To understand and gain the knowledge of Financial system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I – Overview of Financial System	**Introduction to Financial System -** Overview, Meaning, Functions, Evolution of Financial System , Financial System in India compared in those with developed nations and developing nations, constitution of financial system and interrelationship between various components.	**15**	Indian Financial System – M Y Khan	CHALK AND TALK METHOD
UNIT III – Financial Regulators	Meaning and features of Financial regulators, Role and Functions , Types of financial regulators , Market regulated by each regulator.	15	Indian Financial System – Bharati Pathak	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE **DEPARTMENT: Commerce** **CLASS: F.Y.BFM**
SUBJECT: INTRODUCTION TO FINANCIAL SYSTEM **SEMESTER: I** **MONTH: August-December** **ACADEMIC YEAR: 2022-2023**

A teaching plan is a document that outlines the structure and details of a single session. A good teaching plan is a comprehensive write-up of the step-by-step teaching methods, the estimated duration of each segment of teaching, and the materials and resources needed for the session.

LEARNING OBJECTIVE/S:

By the end of the session Students will be able to:

Understand the concept of Money markets, Regulatory framework of money markets, Markets instruments, and recent development in money markets.

(For a detailed description of each component see Appendix A).

APPENDIX {A}

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT2 Financial Markets	a] Introduction to financial market	03	Book by Manan publications/Internet	Chalk & Board
	b] Classification of Financial Markets	04	Book by Manan publications/Internet	Chalk & Board

Total no of lecture 07

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UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 Financial Instruments	a] Financial Instruments & its classification	03	Book by Manan publications/Internet	Chalk & Board
	b) innovation in financial instruments	03	Book by Manan publications/Internet	Chalk & Board
	c] Evaluation of Financial Instruments	03	Book by Manan publications/Internet	Chalk & Board

Total no of lecture 09

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJECT – BUSSINESS COMMUNICATION – II **SEMESTER:** II **MONTH:** January 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	15	PPT	Online Lectures on Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJCT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** February 2023 **ACADEMIC YEAR:**2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference **Modern Methods:** Video and Tele – Conferencing	12	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJECT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** March 2023 **ACADEMIC YEAR:** 2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2) Group Communication	**Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR	03	PPT	Online Lectures through Google Meet
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	15	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A

SUBJECT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** April 2023 **ACADEMIC YEAR:** 2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4) Language and Writing Skills	**Reports:** Parts, **Types -** Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	15	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT II MEASURES OF CENTRAL TENDENCY	Criteria for Good Measures of Central Tendency, Arithmetic Mean, Median, Mode for Grouped and Ungrouped Data, Combined Mean	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT III MEASURES OF DISPERSION	Concept of Dispersion, Absolute and Relative Measures of Dispersion, Range Variance, Standard Deviation, Coefficient of Variation, Quartile Deviation, Coefficient of Quartile Deviation	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT IV CORRELATION AND REGRESSION	Concept of Correlation, Positive and Negative Correlation, Karl Pearson's Coefficient of Correlation, Meaning of Regression, Two Regression Equations, Regression Coefficients and Properties.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT V LINEAR PROGRAMMING PROBLEM	Meaning of LPP Formulation of LPP, Solving LPP graphically.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Rajput DEPARTMENT: Commerce (SFC) CLASS: F.Y.B.F.M SEMESTER: II

MONTH: November - March ACADEMIC YEAR: 2022- 2023 SUBJECT: Computer Skills- I

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge of Computer Hardware, Windows Operating System, Application of Internet, MS Word and MS Excel.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Computer Hardware	A) Personal Computers- identification/demonstration of different storage Devices like CD and CD drive, hard disk- HDD, storing and retrieving data from various storage devices.	04	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Identification of various input and output devices. Primary memory, RAM and ROM- Processor- CPU, its speed- machine cycle, ports, computer buses, Different types of printers.	04		
	C) Introduction to trouble shooting of personal computers.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Windows	A) Introduction, features, various versions of windows, My computer, my documents, recycle bin, network neighborhood.	05	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Start menu, taskbar, file and folder operation (creating, copying, moving, deleting), system tools, creating shortcuts.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Internet	A) What is internet, most popular internet services, functions of internet like email, WWW, FTP, UseNet, Instant messaging.	05	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Internet telephony, using address book, working with task list, scheduling appointments, reminders, events.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV Word – 2013	A) Getting started, The Word window, New documents, Document navigation, Editing text, Working with text, Undo and Redo commands, Cut, copy, and paste, Find and replace Text formatting,.	03	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk, Duster And Computer (MS-Word Software)
	B) Character formatting, Tab settings, Paragraph formatting, Paragraph spacing and indents Tables, Creating tables, Working with table content, Changing the table structure Page layout, Headers and footers.	04		
	C) Page setup Graphics, Adding graphics and clip art, Working with graphics Proofing, printing, and exporting, Spelling and grammar, AutoCorrect, Printing and exporting documents.	03		
	Practical: - Create Window- Cut, Copy, Paste, Find & Replace Text Formatting, Header & Footers, Adding graphics and clip art, Spelling and grammar in Word - 2013.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - V Excel- 2013	A) Fundamentals of Excel, Cut, Copy, Insert, Delete, Paste Special, Custom Formatting, Undo, Redo.	03	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk, Duster And Computer (MS- Excel software)
	B) Excel Formulas – Basic, Useful functions and Paste Function, Calc, Comments, Drawing toolbar, Edit, Replace, Delete, Clear.	03		
	C) Essential Printing, Data Sorting, Hiding, AutoFormats, Protection, Basic Charts, Basic Formatting, If Function.	04		
	Practical: - Create Spreadsheet in Excel - 2013, Create Table- Insert & Delete Records, Basic Excel Formulae, Cut, Copy, Paste & Basic Charts in Excel-2013.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Janhavi V. Raut DEPARTMENT: Commerce (SFC) CLASS: F.Y.B.F.M SEMESTER: II

MONTH: November - March ACADEMIC YEAR: 2022- 2023 SUBJECT: Environmental Science

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge about Environment and its Science & Environmental Management System . Even create better understanding about the Environmental Science.

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Environment : An Overview	A) Environment : structure, components and typology	04	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & interactive method
	B) Ecosystem as part of environment	04		
	C) Biodiversity	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Natural Resources	A) Natural Resources: Definition, Importance & classification	03	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & Interactive method
	B) Utilization & conservation of natural resources	04		
	C) Natural Resources & Associated problems	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Environment & Economic Activities	A) Nature of economic activities	04	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & Interactive method
	B) Environmental & Economic Activities and associated problems	02		
	C) case studies on impact of human activities on environment	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – IV Environment Management	A) Environmental Management – concept & Need	03	Book by Sheth publication & Vipul publications	Board , Chalk, Duster And Interactive method
	B) Tool of Environmental Management, Environmental Impact Assessment, Environmental Audit	04		
	C) Role of technology in Environment management – GIS, GPS, Remote sensing as tools	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pranali Gurav** DEPARTMENT: **Commerce**

CLASS: **FYBFM_A** SEMESTER: **Sem II** MONTH: **Nov to April** ACADEMIC YEAR : **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Preparation of Financial Statements as per Companies Act.
2) Cash Flow Analysis as per AS 3
3) Introduction to IFRS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Financial Accounting II	Unit : 1 SHARES AND DEBENTURES:	15	Manan & Vipul Publication	Chalk Board.
	1. Issue of Shares and Debentures. 2. Types of Shares and Debentures (in India). 3. Accounting Treatments for Issue of Shares and Debentures with New Market and SEBI			
	Unit 2 : CORPORATE ACCOUNTING:	15	Manan & Vipul Publication	Chalk Board.
	1. Capitalisation of Reserves and Issue of Bonus Shares. 2. Preparation of Corporate Financial Statements in Vertical Form.			
	Unit 3 : SHARE VALUATION:	15	Manan & Vipul Publication	Chalk Board.

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	1. Valuation of Shares. 2. Buyback of Shares and Own Debentures? 3. Investment Accounting.			
	Unit 4 : INDIAN ACCOUNTING STANDARDS:	15	Manan & Vipul Publication	Chalk Board.
	1. AS, GAAP and their Impact on Income Statement and Balance Sheet. 2. Latest Development: Computerization of Accounting and Softwares.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: Commerce CLASS: F.Y.BFM
SUBJECT: FOUNDATION COURSE II SEMESTER: II MONTH: December- March ACADEMIC YEAR: 2022-2023

A teaching plan is a document that outlines the structure and details of a single session. A good teaching plan is a comprehensive write-up of the step-by-step teaching methods, the estimated duration of each segment of teaching, and the materials and resources needed for the session.

LEARNING OBJECTIVE/S:

By the end of the session Students will be able to:

The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

(For a detailed description of each component see Appendix A).

APPENDIX {A}

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	**Concepts of liberalization, privatization and globalization**	2	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Growth of information technology and communication and its impact manifested in everyday life	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Impact of globalization on industry: changes in employment and increasing migration	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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	Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 05

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 Human Rights	a]Concept of Human Rights.	01	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	b] Evolution of Human Rights	02	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	c] The Universal Declaration of Human Rights	03	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHO
	d] Fundamental Rights in Constitution	04	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD

SIG1NATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

Total no of lecture 10

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 Ecology	a] Concept of environment & ecology	02	Book by Manan publications/Internet	1. CHALK & BLACK BOARD METHOD 2. .INTERACTIVE METHOD
	b] Importance of environmental studies, Environment as a Natural capital & quality of human life	03	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD
	c] Environmental Degradation. i. Causes ii. Impact on human life	02	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD
	d] Sustainable Development i. Concept ii. Components	02	Book by Vipul publication/internet	• CHALK & BLACK BOARD METHOD • 2 .INTERACTIVE METHOD

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	e] Poverty & Environment	01		• 1.CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 10

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 Understanding Stress & Conflicts	**Causes of stress & Conflicts in individual & society,**	1	Book by Manan publications/Internet	Online
	Agents of Socialization & the role played by them in developing the individual.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Significance of values, ethics & prejudices in developing the individuals.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Stereotypying & prejudice as significant factors in causing conflicts in society.	1	Book by Manan publication/internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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	Aggression & Violence as the public expression of conflicts.	1	Book by Manan publication/internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 05

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 Managing stress & conflict in Contemporary Society	**Types of conflicts and use of coping mechanisms for managing individual stress**	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Maslow’s theory of self-actualisation,	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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	Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 03

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AMBARI PATWARDHAN DEPARTMENT: COMMERCE CLASS: SYBFM

SEMESTER: III MONTH: JUNE - OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law

The learners will be able to: The Pupils Will be able to understand the concept of Contract , its types and essentials , concept of goods, it's types, contract of sale, and other related provisions, As well as they will be able to understand the concept of negotiable instrument ,it's types, and other related provisions and specific contracts

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian Contract Act 1872	Definitions :- Agreement, types of agreement, Contract, types of contract , valid, void, voidable, contingent, and quasi contract and e-contract. Difference between agreement and contract.	**08**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
	Offer definition, election of valid proposal or offer, counter offer, standing or open offer, difference berween offer and invitation to offer acceptance- definition, essentials of valid contract, promise, communication of offer and acceptance and revocation	**04**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
	Capacity to contract, consent and free consent, consideration and void agreement	**03**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
Specific contract Act	Law of Indemnity and Grarantee Law of Bailment and Plegde	**04**	Indian Contract Act 1872 by	Chalk , Board and Duster

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	Law of Agency		Dr.Avtar Singh	
The Sale of Goods Act, 1930	Chapter I Introduction, definitions, formalities of contract of sale, Distinguish between sale and agreement to sell Hire Purchase agreement.	04	Principles of law Of sale of goods Dr Avatar Sing	Chalk , Board and Duster
	Chapter II Conditions and Warranties, Doctrine of Caveat Emptor	03		Chalk , Board and Duster
	Chapter III Transfer of property in goods-meaning and rules governing The same, transfer of risk	03	Chalk	Board and Duster
	Chapter IV Meaning of the term unpaid seller and rights of an unpaid seller, auction sale	03		Chalk , Board and Duster
The Negotiable Instruments Act,1881	Chapter I Meaning and characteristics of Negotiable Instruments, Classification of Negotiable Instruments	03		Chalk , Board and Duster
	Chapter II Promissory Note and Bill of Exchange, essential elements, Distinguish between Promissory note and bill of exchange, Acceptance and acceptor, absolute and Qualified acceptance, Drawer, drawee in case of need,	04		Chalk , Board and Duster

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	payee, dishonor			
	Chapter III Cheques, crossing of cheques, distinguish between Bill of Exchange and cheque, penalties in case of dishonour of cheques	03		Chalk , Board and Duster
	Chapter IV Miscellaneous provisions(sections8-10,22,99-102,118-122,134-137)Holder and Holder in due course, Rights and Privileges of a holder in due course ,Payment in Due course ,maturity of an instrument ,Bill in sets	03		Chalk , Board and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Princy Tinish DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF COMMODITY MARKETS IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3- COMMODITY EXCHANGES	Function and Role Trading and clearing methods Commodity future Commodity Specific Exchange v/s Multi Commodity Exchange.	15	Commodity Exchange Concept, Tools, Guideline By Issouf Soumaré	CHALK AND BOARD
UNIT 4- STRENGTHENING COMMODITY MARKETS IN INDIA	Role of Government Role of Commodity Exchange Other institutions Training and Development of Dealers.	15	Commodity Exchange Concept, Tools, Guideline By Issouf Soumaré	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Priyanka **Bangera** DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF COMMODITY MARKETS IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction to Commodity Market	• Emergency of Commodity Market • Dynamic of Global Commodity Market.	12	Vipul Commodity Market -S.P Das	CHALK AND BOARD
UNIT 2 - COMMODITY MARKETS IN INDIA	• Commodity Exchange in India • Role of Information in commodity Market • Linkages between Equity and commodity Market. • Commodity Market -Logistics and warehouse.	15	Vipul Commodity Market -S.P Das	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Devnath_Rajput DEPARTMENT: Commerce (Self – Finance) CLASS: S.Y.B.F.M (DIV A & B)

SEMESTER: III MONTH: July - October ACADEMIC YEAR: 2022- 2023 SUBJECT: Computer Skills - II

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge of Excel, Data Base Management System, Different system of E-Business Software and Online Banking.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Advanced Spreadsheet	Pivot Table.	01	Computer Skills - II By Rimple Sanchla And www.Guru99.com https://www.guru99.com/excel-tutorials.html	Board, Chalk, Duster And Computer (MS- Excel Software)
	Advanced formulae.	03		
	Lookups.	02		
	Macros.	02		
	Working with other programs.	02		
	Inserting a spreadsheet sheet in word document.	01		
	Modifying an inserted spreadsheet.	01		
	Inserting a linked chart in a Word Document.	01		
	Inserting graphic in a spreadsheet.	02		
	Practical: Pivot, Advance Formulae, Lookups, Macros, Inserting linked chart in a word document	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Data Base Management System	Concepts.	01	Computer Skills - II By Rimple Sanchla And www.Guru99.com https://www.guru99.com/dbms-tutorial.html	Board , Chalk, Duster and Computer Software
	Tables.	02		
	Fields.	02		
	Datatypes.	03		
	RDBMS.	03		
	Primary Key.	02		
	Foreign Key.	02		
	Practical: - Create Table, Primary Key, Foreign Key, Insert Data, Delete table.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Modern E Business Software Systems	Introduction.	01	Computer Skills - II By Rimple Sanchla And www.wikipedia.com	Board , Chalk and Duster
	Enterprise Resource Planning – ERP.	03		
	Supply chain Management- SCM.	02		
	Customer Relationship Management- CRM.	02		
	Sales Force Automation- SFA.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV Other Emerging Technologies	Other emerging technologies	03	Computer Skills - II By Rimple Sanchla And www.wikipedia.com	Board , Chalk and Duster
	Net-banking	03		
	Online banking software	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF EQUITY MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2- Primary Market	• IPO - Methods followed, Book Building, Offer for sale • Role of Merchant bankers in fixing the price • Red – Herring Prospectus – it's unique features • ASBA and its features • Green Shoe option • Sweat equity, ESOP • Rights issue of shares, Non voting shares ,ADR, GDR,IDR	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD
UNIT 4- Importance of Equity Markets in developing country like India	• Need for attracting more investors towards equity • Need for strengthening secondary markets • Link between Primary Market and Secondary Market.	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VASANTHI SHENOY DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF EQUITY MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction	• Meaning and Definition of equity shares • Growth of corporate sectors and simultaneous growth of equity shareholders • Divorce between ownership and management in companies • Development of equity culture in India • Current position	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD
UNIT 3- It for Equity Secondary Market	• Definition and Function of stock exchange • Evolution and growth of stock exchange • Stock exchange in India • NSE, BSC, OTCEI, and overseas stock exchange • Recent development in stock exchange merger of SEBI with FOMC • Stock market Indices	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. SEEMA SIHANA______________________DEPARTMENT:__SELF FINANCE___________

CLASS __S.Y.B.F.M SEMESTER:_III_________MONTH: _JUNE-OCTOBER 2022 ACADEMIC YEAR: __2022-23_______

LEARNING OBJECTIVE/S: The subject of Money Market is very important as it provides vital information about opportunities for investment as well as capital formation to investors, job seekers and to the students. It helps to transform from traditional savers to smart investors.

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course–III (Money Market) Unit I, II, III,and IV	**Module I- Introduction to Money Markets** Meaning of money market, Features of money market, Importance of money market, Role of Primary dealers, Development of trade and industry, Development of capital market, Smooth functioning of commercial banks, Effective Central Bank Control, Formulation of suitable monetary policy, Source of finance to government.	15	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	Module II- Regulatory Framework of Money Markets	15	**Text book,** Internet	
	Regulatory framework of RBI, FIMMDA (Fixed Income, Money Market and Derivatives Association) and FEDAI (Foreign Exchange Dealers Association of India), NDS-OM Web.			1.Chalk and Black Board Method 2 Example 3 Discussion
	. **Module III- Money Market Instruments** **Conventional:- Treasury bills, Money at call and Short Notice in the Call Loan market, Commercial bills, Promissory notes in the bill market.**	15	Text book, Internet	1.Chalk and Black Board Method 2 Example 3 Discussion

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	Modern:- Commercial papers, Certificate of Deposit, Inter-bank Participation Certificates, Repo instrument, Banker's Acceptance. **Money Market Mutual Fund:- Meaning, advantages, disadvantages, Regulatory framework for money market mutual funds, various money market funds operational in Indian market.**			
	Module IV- Recent Developments in Money Market Integration of Unorganised sector with the Organised sector, Widening of call money market, Introduction of Innovative Instrument, Offering of market rates of interest, Promotion of bill culture, Entry of money market mutual funds, Setting up of credit rating agencies, Adoption of suitable monetary policy, Establishment of DFHI, Setting up of Security Trading Corporation of India Ltd (STCI).	15	Text book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	TOTAL LECTURES:-	60		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bhakti Vilas Purandare DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III MONTH: June to October

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Understand & remember the concept of Ratio Analysis, Understand & remember the concept of Working Capital Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3 – **Cash flow statement**				
	Meaning of cash inflow and cash outflow Operating activities with examples	04	Book by Manan publications/Internet	Chalk and Board
	Financial activities with examples Investment activities with examples	04	Book by Manan publications/Internet	
	Question on cash flow Management	04		
		01	Book by Manan publications/Internet	
Unit 5- **Working Capital Management**	Concept, Nature of Working Capital , Planning of Working Capital	01	Book by Manan publications/Internet	Chalk and Board
	Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization	01	Book by Manan publications/Internet	
	Operating Cycle Practical Problems	02	Book by Manan publications/Internet	Chalk and Board

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	Sums	02	Book by Manan publications/Internet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __JUNE __ ACADEMIC YEAR: ________2022-23___

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Management Accounting	Meaning and Definition of Management Accounting, Nature and Frame work	1	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Functions of Management Accounting, Decision Making Process	1		
	Information of Decision making (Information, Strategic, tactical and operational information)	1		
	Financial Accounting v/s Management Accounting , Qualities of Management Accounting	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____5____

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __JULY- AUGUST__ ACADEMIC YEAR: ________2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 Analysis and Interpretation of Accounts	Introduction and importance of Financial statements, Vertical form of Balance sheet and Profit and loss Account suitable for analysis	3	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Simple sums based on Analysis of Financial Statement	3		
	Format and Calculation Tricks of Trend Analysis Comparative Statement Common size Statement Practical Illustration	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __10____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BAHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __AUGUST - SEPTEMBER ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 Ratio Analysis and Interpretation based on Vertical Financial Statements	Introduction and Meaning of Financial statement analysis, Steps, objectives , Types of Analysis, simple sums on financial statement	3	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Ratio Analysis- Meaning, Classification , DU Pont chart, Advantages and limitations.	2		
	Balance sheet ratio, Revenue statement Ratio and Combined Ratio (Applications of formulas)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____8____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: SYBFM

SEMESTER: III MONTH: August to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the concept of portfolio analysis
2) Understand and remember the concept of Portfolio Revision and performance management

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 1. Portfolio Analysis	Analysis: Diversification, portfolio risk and return, single index model, The sharpe index model, Portfolio Beta Selection: Markowitz Risk- Return optimization, concept of utility, Sharpe optimization model, Geometric mean model, Safety First model, Stochastic Dominance Model.	8	Vipul publication	Board,Chalk
Unit 2 .Portfolio Revision and performance management	Revision: Portfolio rebalancing, portfolio upgrading, Formula plans, constant ratio plan, variable ratio plan, selection and revision of equity portfolio Performance measurement: Methods of calculating rate of return, Money weighted rate of return, Time weighted rate of return, Linked internal rate of return, Buying the index approach, Sharpe's- Treynor's – Jensen's	10	Vipul publication	Board,Chalk

	performance measure of portfolio.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _ANKITA ARUN RAUT__________________________ DEPARTMENT: ___ACCOUNTANCY______________

CLASS: ____SYBFM_____ SEMESTER: __III___________ MONTH: __JUNE-NOV___ ACADEMIC YEAR: __2022-23____________

LEARNING OBJECTIVE/S:
The learners will be able to : _Learn meaning of Portfolio Management, Investment process, Process of asset allocation, portfolio Mang. Strategies, etc_.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	**Introduction To Portfolio Management** Investment process, Investment Categories, defining investment goals and objectives, investment constraints. Process of asset allocation, different approaches to allocation decision, overview of allocation techniques.	12	Vipul Prakashan Internet	Chalk & Duster Internet
2	**Portfolio Management Strategies** Active Strategy, passive strategy, semi active strategy, duration shift and immunization, efficient market hypotheses, top down and bottoms up.	12	Vipul Prakashan Internet	Chalk & Duster Internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____24_____

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NAME OF THE STAFF: LEJESH KELOTH DEPARTMENT: COMMERCE (SELF-FINANCE) CLASS: SYBIM

SEMESTER: III MONTH: NOV-MARCH ACADEMIC YEAR: 2022 – 23

LEARNING OBJECTIVES:
The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Business Economics – II Macro Economics Unit: I, II & III IV,V	Unit I: Overview of Macro Economics - Circular flow of income in open an closed economy - Measurement of National Product , Green GNP and NNP - Trade cycle: features and phases - Say's Law of Market	3	H.L.Ahuja Modern Economics	PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion
	Unit II: Money, Prices and Inflation - Money supply determinants and factors - Demand for money, classical and Keynes approach and also Friedman approach - Money & Prices Fisher and Cambridge equation - Inflation: types, nature, Policy Measures	4	D.N.Diwedi Macro Economics	

	Unit III: Introduction to Public Finance - Meaning, Scope and Major Fiscal Functions			
	UNIT 3; **Public revenue, Public Expenditure and Debt Sources of Public Revenue:** tax and non-tax revenues Objectives of taxation - Canons of taxation - Types of taxes: direct and indirect - Tax Base and Rates of taxation: proportional, progressive and regressive taxation Shifting of tax burden: **Impact and incidence of taxation** - Processes- factors influencing incidence of taxation Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. Redistributive and Anti – Inflationary nature of taxation and their implications **Public Expenditure**: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization – Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmes. **Public Debt** : Classification - Burden of Debt Finance : Internal and External Public Debt and Fiscal Solvency	4	AHUJA .H.L, MODERN	PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion

		4	ECONOMI C BHATIA H.L PUBLIC GINANCE	
	UNIT 4			
	Fiscal Management and Financial Administration Fiscal Policy: Meaning, Objectives, constituents and Limitations. Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : **Principles of Sound and Functional Finance Budget**- Meaning objectives and types - Structure of Union budget - Deficit concepts- **Fiscal Responsibility and Budget Management Act.** Intergovernmental Fiscal Relations : fiscal federalism and fiscal decentralization - central-state financial relations – 14th Finance Commission recommendations	5		PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ambari Patwardhan DEPARTMENT: SFC CLASS: SYBFM SEMESTER: IV MONTH: December to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law
The learners will be able to : The pupils will be able to learn about theformation of various entities like compant partnership and LLP Act, where they will learn the concept of IPR, essentials and types and rules regarding the such entities

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Companies Act 2013	Definition, advantages – disadvantages of company , types	4	The Companies Act by Cr. Avatar singh	Black board, chalk
	Lifting of corporate Veil, Documents and procedure for incorporation of company, Effect of Incorporation	3		
	Membership of company	2	The Companies Act by Cr. Avatar singh	Black board, chalk
	Memorandum of association and Article of association	2		
	Prospectus , Meaning, contents, types and legal framework	2	The Companies Act by Cr. Avatar singh	Black board, chalk
	Directors, types, DIN , legal position. Advantages and disadvantages , women directors , managing directors	2		Black board, chalk

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	Meetings , types e-voting	2	The Companies Act by Cr. Avatar singh	
IPR	IPR rights in India and types, Patents- meaning, features, conditions, opposition to grant patents , expiration of Patent, remedies available	2		Black board, chalk
	Copyright- Meaning, registration, term of copy right, what works are protected infringement and remedies.	2	The Companies Act by Cr. Avatar singh	
	Trademarks – Meaning, types, registration process, infringement and remedies, passing off, services marks	2		Black board, chalk
Indian Partnership Act	Definition, types, test of partnership, partnership deed, property of the firm dissolution of partnership	3		
LLP 2008	Definition, body corporate, salient features, Nature , difference between LLP and partnership, conversion, winding up and dissolution of LLP	3		
Securities Contract Act	Securities- terms of listing, - delisting , Appellate tribunal, recognition, bye-laws, types of contracts, securitaization-reconstruction of financial assets	4		
SEBI	SEBI – objectives, establishment, powers and functions , accounts audit, penalties, registration Issues of disclosure investors protection guidelines.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACH.ING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF. MADHURA ARVIND SURVE DEPARTMENT: COMMERCE CLASS: SYFM SEMESTER: IV (CD) MONTH: DECEMBER-FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO MAKE STUDENTS AWARE ABOUT DERIVATIVES.

The learners will be able to: COMMODITY DERIVATIVES AND THEIR BENEFIT

PAPER, UNIT, TITLE	SUBTOPICS		NO OF LECTURES ALLOTED	REFERENCE/S	
UNIT I, II, III & IV	**1.Introduction of Derivatives:** Derivatives definition, Types of derivatives, Products, Participants and Functions, Exchange traded v/s OTC Derivatives How Commodity Derivatives differ from financial Derivatives- Warehousing, Quantity of underlying assets, Global Commodity Exchanges, Commodity Exchanges in India, Commodities permitted for trading, Kabra committee Report, Commodity specific issues – Cropping and Growth patterns, Global Domestic demand supply dynamics, Price trends and Factors that influence prices.		15	VIPUL PRAKASHAN SETH PUBLICATION, INTERNET	1. CHALK 2. INTERA
	2. Pricing Commodity Derivatives:		15	VIPUL PRAKASHAN, SETH	1. CHALK 2. INTERA

	Investment assets v/s Consumption assets - The Cost of Carry Model Pricing futures contracts on investment commodities- Pricing futures contracts on consumption commodities-The futures basics- Concept of Hedging, Speculation, Arbitrage.			PUBLICATION INTERNET	
	3. Trading: Basic Concepts. Basic concepts such as Margins, Circuit filters delivery norms- Contracts specifications, Trading system, and Entities in the trading system, Trader workstation, Order types and conditions, Exposure limits, Commodities to be traded: Types of commodities: Bullion (silver and Gold), Agricultural commodities. Clearing settlement and Risk Management Calendar and Settlement schedule, Position determination, Settlement mechanism, Daily mark to market settlement, Settlement price- Daily settlement price, Final settlement price, Margining - Initial margin, Daily mark to Market margin, Open interest limits, Second line of Defense, NSCCL span. Final Settlement: Cash settlement, Physical settlement (warehousing). Exception handling: Funds shortages, Delivery shortages.		15	VIPUL PRAKASHAN, SETH PUBLICATION, INTERNET	1. CHALK 2. INTER
	4. Regulatory Framework: Rules governing Commodity derivatives-Derivatives Exchange, Rules Governing intermediaries, Investor Grievances, Arbitration		15	VIPUL PRAKASHAN, SETH PUBLICATION, INTERNET	1. CHALK 2. INTER

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KALPANA JAIN** DEPARTMENT**:** ACCOUNTANCY CLASS: **S.Y.B.F.M.**

SEMESTER: **IV** MONTH: November - **February** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S : To explain the concepts of Corporate Finance.

The learners will be able to :understand the concepts in simple way which will help them to understand the importance of it in Practical life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I Corporate Finance -An Overview	***Functions of Finance in a Business enterprise** ***Emergence of Corporate Finance as an Integral part of Business Finance.** ***Need for professional approach in managing corporate finance.** ***Need for professional approach in managing corporate finance.** ***Role and Functions of a corporate finance Manager** ***Requirements of an efficient Corporate Finance Manager.**	02 02 02 02 01 02	Financial Derivatives – C.S.Divyesh Patel	Chalk-Board Method
Unit II Planning the Corporate Financial Activities	*Theories of Capitalisation. *Difference between Owned Capital and Borrowed Capital. * Cost of Capital * Practical problems based on Cost of Capital *Marginal Costing *Marginal cost Statement and Formulas *Break -Even Analysis	01 01 01 05 01 02 01	Options,Futures and Other	Chalk-Board Method

	*Practical problems on Marginal Costing	05		

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Unit III Capital Structure Unit-IV Sources and Method of Raising Corporate Finance	*Meaning and Definition of Capital Structure *Factors affecting Capital structure -Trading on Equity. *Concepts of Watered Capital,Over-Capitalisation and Under-Capitalisation. *NPV,IRR,DCF Analysis and Payback Period. * Practical problems on calculation of EPS *Practical problems on calculation of NPV,IRR,PI and Payback Period. *Types and features of Corporate Securities. *Management of New issues including Pricing of securities. *Role of Commercial Banks and Investment Banking Financing the Corporate Sector. *Leasing as a method of Corporate Finance. *Practical problems	01 01 02 03 05 05 02 02 03 02 06	Derivatives – John C Hull Sankarshan Basu	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNITS: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. SEEMA SIHANA**________________________DEPARTMENT: **SELF FINANCE**___________

CLASS __**S.Y.B.F.M** SEMESTER: **II**_________**MONTH**: _NOVEMBER - MARCH 2023 ACADEMIC YEAR: __**2022-23**_______

LEARNING OBJECTIVE/S: **Gives insight to students about working and importance of equity and debt markets in depth.**

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EQUITY MARKETS II	**Module I- Developments in Indian Equity Market:-** **Domestic Savings and Investments.** **Disinvestments, FDI and Foreign Portfolio Investment (FPI).** **Role of Retail Investors.** **Share Price and Share Price Volatility.** **Role of SEBI.**	**15**	**Text Book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**
	Module II- Valuation of Equities:-	**15**	**Text book and Internet**	
	Factors affecting Share Prices. **Balance Sheet Valuation.** **Dividend Discount model (Zero growth, constant growth and Multiple growth)**			**1.Chalk and Black Board Method** **2 Example** **3 Discussion**
	Module III- Statistical Analysis of Share Price Movement:- **Efficient Market Hypothesis.** **Stochastic Models.** **Brownian Motion.**	**15**	**Text book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**

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	BETA			
	Module IV- Dealings in Stock Exchanges:- **Role of Brokers.** **Stock Market Quotations.** **Procedure for Buying and Selling.** **BOLT - Online Trading/ NEAT System.** **Clearing and Settlement.** **Order Matching.**	**15**	**Text book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SAYLI VAIBHAV PATIL DEPARTMENT: COMMERCE-SELF FINANCE SUBJECT: FOREIGN EXCHANGE (FC)
CLASS: SYBFM SEMESTER: IV MONTH: October- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Receive knowledge or information regarding the unit taught within the time frame with examples which students will be able to develop thus helping them to demonstrate their knowledge and proficiency during exams.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Foreign Exchange Market:	An Introduction FOREX trading volume, FOREX trading locations, Details about major traded currencies, Evolution of foreign exchange ,Market and Foreign Exchange System Market Participants: Banks and Financial Institutions, Merchants, other customers, speculators and hedgers, Central Bank, Forex dealers and market makers and brokers, FOREX – trading and SWIFT Robots	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2: Introduction to Indian Foreign Exchange Market	FOREX market in India: A historical perspective FERA Vs. FEMA, Pre-liberalization Exchange Rate Regime in India and Hawala market	12	Vipul Publications	Lecture method, Discussion method
	Brief introduction to currency convertibility in current and Capital account.	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

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UNIT, TITLE		LECTURES ALLOTED		TOOLS USED
Unit 3: Operational aspects of foreign exchange market and foreign exchange contracts	a) Floating Rate, Currency Boards &Currency Basket Systems, Brief review on various exchange rate regime, Advantages of free and Fixed Exchange Rate regime, Pros & Cons of managed floating exchange rate regime, Prevalence of Currency Boards Regime, Practice of Currency Basket Regime.	8	Vipul Publications	Lecture method, Discussion method
	b) Foreign Exchange Contracts: Spot and Forward Contracts Cash, Spot trading Trade Date, Settlement PR date Spot trading roll over mechanism. Foreign Exchange Forward contracts, Fixed Maturity Contract, Partially Optional Contract, Fully Optional Contract, Non-Delivery Forward Contracts, Foreign Exchange Futures Contract, Different Dimensions of Foreign Exchange Future, Contract specification trading at National Stock Exchange of India.	7	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4: Foreign Exchange Arithmetic and Risk Management	Types of Exchange Rates Direct Rate, Indirect Rate and Cross Rate Arbitrage- Geographical and triangular Interest Rate- spot Contracts, forward contracts and SWAP Points Risk Management in Foreign Exchange Market- Need and importance of foreign exchange management methods adopted (Spot and forward, arbitrage, cross currency deals, SWAPS, options and futures	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SAYLI VAIBHAV PATIL DEPARTMENT: COMMERCE-SELF FINANCE SUBJECT: MERCHANT BANKING
CLASS: SYBFM SEMESTER: IV MONTH: October- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Receive knowledge or information regarding the unit taught within the time frame with examples which students will be able to develop thus helping them to demonstrate their knowledge and proficiency during exams.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Introduction to Merchant Banking	Introduction to Merchant banking, Importance, need, functions, Merchant banking services - Project counselling, Loan syndication and Corporate counselling; Pre-issue merchant banking activities - Obtaining stock exchange approvals, action as per SEBI guide lines, Finalizing the appointments with - manager/advisers, Underwriters, Brokers, Bankers, Advertising agency, Drafting and approval of prospectus; Post-issue merchant banking activities – Issue subscription, Allotment of shares, Refunds, Periodical reports to SEBI.	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Initial Public Offering (IPO)	Initial Public Offering - Issuance Process, Role of registrar, SEBI guidelines for IPO eligibility, IPO grading, Draft Red Herring Prospectus (DRHP), Listing agreement, Pricing the issue, Book building process, Allotment; SEBI Guidelines in Drafting the Offer Document; Pre and Post launch activities in IPO, SEBI Guidelines on QIP,	12	Vipul Publications	Lecture method, Discussion method
	Rights and Bond Issues	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3- Issue of DRs, ADRs and CPs	Types and Process of Issuing of Depository Receipts (DRs) - American Depository Receipts (ADRs), Global Depository Receipts (GDRs), European Depository Receipts (EDRs), Indian Depository Receipts (IDRs), ADR structure and norms, Indian Depository Receipts (IDRs) and Guidelines	12	Vipul Publications	Lecture method, Discussion method
	Procedure for issue of Commercial Paper – Credit Rating, Redemption process.	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4: Issue of Bond and Debentures	Procedure for Issue of Bond and Debentures, Foreign currency convertible bonds	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pushpa Barve   SUBJECT: Business Ethics   DEPARTMENT: Commerce (SFC)

CLASS: TYBFM   SEMESTER: V   MONTH: July- August   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III Shareholders Rights	Rights of Shareholders	3	D.P. Mittal	Chalk & Board, Discussion Google Classroom YouTube Videos
	Challenges of exercising shareholders rights	3		
	Corporate governance and third-party transactions	2		
	Role of investors association in securing shareholders rights	2		
	Role of institutional investors in corporate governance	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Vasanthi Shenoy SUBJECT: Business Ethics & Corporate Governance DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER:V MONTH: June-Oct ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Business Ethics	Role of Board of Directors, Organization climate and structure ethics Addressing ethical dilemmas Code of ethics; ethics committee, ethics training, integrity pact	5	Manuel G. Velasquez	Chalk & Board, Discussion Google Classroom You Tube Videos
UNIT 2 Corporate Governance- Conceptual Framework	Corporate Governance- Conceptual Framework Introduction, need and scope Evolution of Corporate Governance Developments in India Elements of Good Corporate Governance, ESG- Environment Social Governance- Tata Steel Various scams (Sahara,, Enron, Kingfisher, Worldcom, Harshad Mehta, PNB, HSBC, Satyam)	9		
UNIT 3 Corporate Governance Forums and Legislative Framework of	Corporate Governance Forums and Legislative Framework of Corporate Governance in India National Foundation of Corporate Governance	9		

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Corporate Governance in India	Global Corporate Governance forum Listing agreements SEBI Guidelines Companies Act			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof.Heena Qureshi DEPARTMENT: Commerce CLASS: T.Y.BFM SEMESTER: V MONTH June-Sept

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: to understand about the basics of business valuation
The learners will be able to : learn business valuation and its methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.Basics of valuation 2. Valuation models				
	Introduction, price v/s value, purpose, bias, uncertainties, role of valuation.	15	Business valuation taxmann	PPT,PDF, GOOGLE CLASSROOM, GOOGLE MEET
	Asset based approach, income based approach, discounted cash flow, free cash flow.	20		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: BUSINESS VALUATION DEPARTMENT: COMMERCE

CLASS: TYBFM SEMESTER: V MONTH: JUNE – JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 VALUATION OF SELECT TANGIBLE ASSETS	Introduction, meaning of fixed assets, importance of asset valuation.	01	R.L. GUPTA	• Chalk • Board • Discussion • Examples
	Measuring asset value, related cost in relation to fixed asset valuation, self-constructed fixed assets.	02		
	Assets acquired in exchange; fixed assets held for disposal.	01		
	Practical illustration	05		
	B) Valuation of Shares			
	Meaning, Need, Importance, of valuation of shares, Factors affecting valuation of shares, Methods of valuation of shares.	2		
	Practical Illustrations	5		

NUMBER OF LECTURES ALLOCATED TO THE UNIT 4: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: BUSINESS VALUATION DEPARTMENT: COMMERCE

CLASS: TYBFM SEMESTER: V MONTH: AUGUST - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 **VALUATION OF GOODWILL AND SHARES**	A) Valuation of Goodwill		**R.L. GUPTA**	• Chalk • Board • Discussion • Examples
	Meaning, Nature, Features, Classes, Elements, Types of Goodwill	1		
	Factors of Goodwill Valuation and Methods of goodwill valuation	2		
	Practical Illustration	5		
	B) Meaning and types of Patents and Copyright,	01		
	Practical illustration	02		

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	Introduction, meaning of Brand, factors, steps, Valuation method of brand,	01		
	Practical illustration	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 5: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Dattaram Gurav DEPARTMENT: Self Finance CLASS: T.Y.BFM SEMESTER: V MONTH: June to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of Fundamental Research, Technical analysis, Economy Analysis, Industry Analysis
2) Understand and remember Company analysis; Qualitative Dimensions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3- Fundamentals of Research	Fundamentals of Research	03	Book by Seth publications/Internet	Google Classroom, Chalk and duster
	Economy Analysis	03	Book by Seth publications/Internet	Google Classroom, chalk and duster
	Industry Analysis	03	Book by Seth publications/Internet	Google Classroom, chalk and duster
Unit 4- Company Analysis	Qualitative Dimensions	04	Book by Seth publication/Internet	Google classroom, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya SUBJECT: Equity Research DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July – Sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Introduction to research and research methodology	Introduction of research,	1	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Meaning of research	1		
	Objectives of research	1		
	Features of research	1		
	Importance of research in financial market	1		
	Objectives of research	1		
	types of research	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya SUBJECT: Equity Research DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July – Sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II Equity research – An overview	Introduction, meaning, goals of equity research	**2**	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Elements And types of equity research, classifications of stock	**3**		
	Market participants,	**1**		
	role of equity research in capital market & different approaches to equity research	**1**		
	Role of research analyst, Responsibilities of research analyst	**1**		
	Basic principles of interaction with client/ companies	**1**		
	Qualities of research analyst	**1**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya SUBJECT: Equity Research DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July – Sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV Company analysis	History of business V/S future of business	2	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Reading of financial statement	1		
	Peer comparison	1		
	Dividend and earning history of the company	2		
	Role of corporate actions of the company	2		
	Interest rates and measure of interest rate sensitivity	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 9

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID   DEPARTMENT: COMMERCE

CLASS: T.Y.BFM   SEMESTER: V   MONTH: june-july   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to study in depth about global and Indian Derivative Market

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD**
1.INTRODUCTION TO DERIVATIVES	DEFINITION,TYPES PARTICIPANTS,FUNCTIONS	03	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	Chalk- Board
	DEVELOPMENT OF EXCHANDE TRADED DERIVATIVES,GLOBAL DERIVATIVE MARKET,	04		
	EXCHANGE TRADED vs OTC	02		
	L.C GUPTA &J.R VERMA COMMITTEE	04		
	REQUIREMNET OF SUCCESSFUL DERIVATIVE MARKET	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: V MONTH: AUG-SEP ACADEMIC YEAR: 2022-2022

LEARNING OBJECTIVES:

The learners will be able to clearing and settlement procedures in Future and Option Contracts.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
4.CLEARING AND SETTLEMENT OF OPTIONS & FUTURES	FUTURES AND OPTIONS TRADING SYSTEM, TRADE WORK STATIONS	06	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	Chalk Board
	SPECIFICATION FOR STOCK & INDEX ELIGIBILITY FOR TRADING CHARGES	03		
	CLEARING MECHNISM, OPTION-OPEN POSITION CALCULATION	04		
	MARGINING &SETTLEMENT MECHANISM, RISK MANAGEMENT	03		
	MECHNICS OF SPAN,PORTFOLIO MARGIN REQUIREMENTS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KALPANA JAIN** DEPARTMENT**:** ACCOUNTANCY CLASS: **T.Y.B.F.M.**

SEMESTER: **V** MONTH: June - September ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S : To explain the concepts of Financial Derivatives.

The learners will be able to :understand the concepts in simple way which will help them to understand the trading in stock market.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II FUTURES	***Introduction,Future Terminology** ***Key Features of Future Cont** **racts** ***Future v/s Forwards** ***Equity Futures** ***Equity Futures in India** ***Index Futures** ***Stock Futures** ***Future Trading Strategies** ***Hedging with example** ***Speculation with example** ***Arbitrage** ***Spread Trading** ***Practical problems**	 01 01 01 01 01 01 01 01 01 01 01 01 03	Financial Derivatives – C.S.Divyesh Patel	Chalk-Board Method
Unit III Options and Pricing Options	*Introduction, Option terminology *Types, Options Payoff *Index Options, Stock Options * Option trading Strategies	01 01 01 01	Options,Futures and Other	Chalk-Board Method

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	*Straddle,Strangles *Strips and Straps-Spread trading *Factors affecting Options Pricing *Option Pricing Models * Binomial Pricing Model with practical problems *The Black Scholes model *Pricing of Index Option *Sensitivity of Option Premia: Delta,Gamma,Lambda,Theta,Rho.	01 01 01 01 03 01 01 02	Derivatives – John C Hull Sankarshan Basu	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNITS: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pushpa Barve SUBJECT: Marketing of Financial Services DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER:V MONTH: July -August ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II Marketing Mix	Service Market Segmentation positioning differentiation	3	Philip Kotler	Chalk & Board, Discussion Google Classroom You Tube Videos
	Promotion communication designing managing process	3		
	Constructing service environment managing service	2		
	Service quality and productivity Customer Loyalty	2		
	Customer Relationship Management	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Vasanthi Shenoy　SUBJECT: Marketing of Financial Services　DEPARTMENT: Commerce (SFC)

CLASS: TYBFM　SEMESTER:V　MONTH: June-Oct　ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Service Marketing UNIT 2 Issues in Service Marking UNIT 3 Customer Satisfaction	Foundation of services marketing – Introduction – The services concept – Service Industry – Nature of Service, Characteristics of Services, Classification of Services – Importance of Services Marketing – The Growth in Services – Global and Indian Scenario, Retail Financial Services: Investment Services – Insurance Services, Credit Services – Dimensions and drivers, Institutional Financial Service, Distinctive Characteristics of Services _ Four I's of Services – Intangibility, Inconsistency, Inseparability and Inventory, Managing Service Encounters.	9	Arthur Meidam: Macmillan	Chalk & Board, Discussion Google Classroom You Tube Videos
	Issues in Marketing of Services – Extended Services Marketing Mix : Going Beyond the 4 Ps. (7Ps of Services Marketing). Service Delivery Process – Service Blueprints - Service Mapping – Managing Employees for service orientation. Distribution Strategies of Services – Challenges in Distribution of Services. Personal Selling – Advertising and Sales Promotion in Service	7		

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	Customer Satisfaction & Service Quality in Service Marketing – Service Encounter – Role of HR & Internal Marketing – Monitoring and Measuring customer satisfaction, GAP Model – Handling complaints effectively – Service Failure – Recovery, Use of Internet in Service Marketing, Role of IT in marketing Financial Services, Ethics in Marketing, New trends in marketing, Marketing in 21st Century, Marketing through social networking	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 21

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: TYBFM

SEMESTER: III MONTH: August to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the Major Theories in TA
2) Understand and remember the concept of Risk Management, Trading Psychology and Trading Strategies

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 3. Major Theories in TA	Dow Theory and Elliott Wave Theory.	8	Vipul publication,seth publication	Board,Chalk ,internet
Unit 2 Risk Management, Trading Psychology and Trading Strategies	Risk Management – Need, techniques, uses of stop loss, qualities of successful traders, golden rules of traders, do's and don'ts in trading, Rules to stop losing money, Choosing the right market to trade, Importance of discipline in trading; Day trading, Advantages of day trading, Risks associated with trading, Strategies for day trading, Momentum trading strategies.	10	Vipul publication,seth publication	Board,Chalk,internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _ANKITA ARUN RAUT__________________________ DEPARTMENT: ___ACCOUNTANCY_____________

CLASS: ____TYBFM_____ SEMESTER: __V___________ MONTH: __JUNE-NOV___ ACADEMIC YEAR: __2022-23____________

LEARNING OBJECTIVE/S:
The learners will be able to : __.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introduction to technical Analysis Technical analysis, Basic assumptions, strengths and weakness charts, candlestick chart analysis, one two and three candlesticks pattern, support and resistance, Head and shoulders, double & triple top & bottom, Gap Theory	15	Vipul Prakashan Internet	Chalk & Duster Internet
2	Major Indicators and Oscillators Stochastic, RSI, Williams %R, MFI, Bollinger bands, Moving Averages, MACD	10	Vipul Prakashan Internet	Chalk & Duster Internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____25______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pranali Gurav** DEPARTMENT: **Commerce**

CLASS: **_TYBFM_A_** SEMESTER: **Sem VI** MONTH: **December to April** ACADEMIC YEAR : **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Preparation of Financial Statements as per Companies Act.
2) Cash Flow Analysis as per AS 3
3) Introduction to IFRS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Corporate Restructuring	Unit : 1 Introduction and Concepts:	15	Manan & Vipul Publication	Chalk Board.
	1. Meaning of Corporate Restructuring. 2. Need, Scope and Modes of Restructuring 3. Historical Background. 4. Emerging Trends. 5. Planning, Formulation and Execution of Various Corporate Restructuring Strategies - Mergers, Acquisitions, Takeovers, Disinvestments and Strategic Alliances, Demerger and Hiving off. 6. Expanding Role of Professionals.			

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	Unit 2 : Merger and Amalgamation, Corporate Demerger and Reverse Merger::	15	Manan & Vipul Publication	Chalk Board.
	1. Introduction to Merger and Amalgamation, Corporate Demerger and Reverse Merger. 2. Legal, Procedural, Economic, Accounting, Taxation and Financial Aspects of Mergers and Amalgamat ionsincluding Stamp Duty and Allied Matters. 3. Interest of Small Investors. 4. Merger Aspects under Competition Law. 5. Cross Border Acquisition and Merger. 6. Concept of Demerger; Modes of Demerger - by Agreement, under Scheme of Arrangement. 7. Demerger and Voluntary Winding Up. 8. Legal and Procedural Aspects; Tax Aspects and Reliefs. 9. Reverse Mergers Procedural Aspects and Tax Implications. 10. Meaning and Concept of Takeover. 11. Types of Takeovers; Legal Aspects - SEBI Takeover Regulations. 12. Disclosure and Open Offer Requirements. 13. Bail Out Takeovers and Takeover of Sick Units. 14. Takeover Defenses. 15. Cross Border Takeovers.			
	Unit 3 : Funding of Merger and Takeover and Financial Restructuring	15	Manan & Vipul Publication	Chalk Board.
	1. Financial Alternatives; Merits and Demerits. 2. Funding through various Types of Financial Instruments including Equity and Preference Shares, Debentures, Securities with Differential			

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	Rights, Swaps, Stock Options; ECBS, Funding through Financial Institutions and Banks. 3. Rehabilitation Finance. 4. Management Buyouts/Leveraged Buyouts. 5. Reduction of Capital. 6. Reorganization of Share Capital. 7. Buy-Back of Shares - Concept and Necessity. 8. Procedure for Buy-Back of Shares by Listed and UnlistedCompanies.			
	Unit 4 : Post-Merger Reorganization:	15	Manan & Vipul Publication	Chalk Board.
	1. Factors involved in Post - Merger Reorganization. 2. Integration of Businesses and Operations. 3. Assessing Accomplishment of Post-Merger Objectives; Measuring Post Merger Efficiency.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: VI MONTH: DEC-JAN ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to understand different types of risk and risk management process.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
1.INTRODUCTION TO RISK MANAGEMENT	CONCEPT ANDIDENTIFICATION OF RISK,RISK AND UNCERTAINTY	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK-BOARD
	STRATEGIC &OPERATIONAL RISK	02		
	DYNAMIC NATURE OF RISK,FINANCIAL RISK	02		
	BUSINESS RISK	02		
	OBJECTIVES &PROCESS OF RISK MANAGEMENT	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: VI MONTH: JAN-FEB ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to study Risk Measurement, Financial Risk, Country Risk & technological Risk as well.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
2.EVALUATION OF RISK	RISK MEASUREMENT,SOURCES &IMPACT OF COMMON BUSINESS RISK,MARKET ,CREDIT,LIQUIDITY,	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK –BOARD
	TECHNOLOGICAL,LEGAL,ENVIROMENTAL REPUTATION & COUNTRY RISK	02		
	IMPACT UPON THE STAKEHOLDERS,NATURE &IMPORTANCE OF FINANCIAL RISK	02		
	EVALUATION OF FINANCIAL RISK,ALTERNATIVE RISK MANAGEMENT TOOLS,	02		
	ROLE OF RISK MANAGER & RISK COMMITTEE IN MANAGING RISK	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: VI MONTH: FEB-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to understand the computation of interest rate risk and Bond mathematics.

PAPER,UNIT, TITLE	SUBTOPICS	NO.OF LESTURES ALLOTED	REFERENCES	TEACHING METHOD/ ICT TOOLS USED
4.EXCHANGE RATE RISK	INTEREST RATE MARKET	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK-BOARD
	MATHEMATICS	04		
	IDENTIFYING INTEREST RATE RISK	01		
	ANALYSING INTEREST RATE RISK	02		
	MEASURING INTEREAT RATE RISK	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Roshani Nagar DEPARTMENT: COMMERCE CLASS: TYBFM SUB- Venture Capital and private Equity

SEMESTER: VI MONTH: Jan, Feb, Mar ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to understand in detail venture capital and private equity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1,2,3,4	**1 Conceptual understanding of Venture Capital and Private Equity** Venture Capital –Over View of Venture Capital- Definition- Features- Types –Roles Concept of PE and its characteristics- Definition- Difference between PE,VC and Hedge Funds- Nature of PE Firm- Players in the PE market– Benefit of PE Finance PE Fund –Legal structure and terms- Private Equity Investments and Financing- Private Equity Multiples and Prices- Private Equity Funds and Private Equity Firms- Investment Feature and Consideration **2 Structure and Valuation approaches** Structure and Regulation of Venture Capital and Private Equity- Business Cycle of PE – Structure of VC/PE firms- Limited Liability Partnerships- Routes of VC/PE investments in India- Regulatory Aspects of VC/PE investments Valuation approaches- Risk and Returns- Analysis of Funds- Conventional Method-	10 Lectures in each unit	Jia Makhija	Chalk and board method

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	Revenue Multiplier Method **3 Strategies of Private Equity** □ Leverage Buyout, Growth Capital, Mezzanine Capital- □ Distressed Debt, other Strategies □ Due Diligence- Procedure and Challenges- Due Diligence in Emerging PE Market- Investing in Developing Market- Past Performance and Strategy **4 Exit strategies for Private Equity** □ Modes of exits in Indian Context and Challenges involved- □ IPO, Promoter Buyback ,Sale to Other PE funds, Sale to other strategic Investors, Stake Swap, M & A’s, Open Market-, Secondary Market			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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ACADEMIC YEAR 2022-23 (TERM I)

TEACHING PLAN

CLASS: SYBMS SPECIALIZATION: Marketing+HR+FinanceSEM.: III SUBJECT: BP & ENT

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- students will explore entrepreneurial skills and management function of a company with special reference to SME sector.
- Students will identify the type of entrepreneur and the steps involved in an entrepreneurial venture
- students will understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship.
- Students will understand about the Foundation of Entrepreneurship Development and its theories.

Unit No.	Topic	No. Of Lectures Required
Unit 1	● Foundations of entrepreneurship Development: Concept, need, importance, significance, Characteristics and qualities of entrepreneur ● Theories of Entrepreneurship ● External Influences on Entrepreneurship Development: Socio-Cultural, Political, Economical, Personal. Role of Entrepreneurial Culture	10
Unit 2	Types and Classification of Entrepreneurs ● Intrapreneur, Women Entrepreneur, Social entrepreneurship ● Entrepreneurial development Program (EDP) ● Option available to Entrepreneurs. (Ancillarisation, BPO, Franchise, M&A)	9
Unit 3	Entrepreneur Project Development & Business Plan ● Innovation, Invention, Creativity, Business Idea, Opportunities through change ● Idea generation	10

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	• Environmental scanning and SWOT analysis • Entrepreneurial Venture • Business Plan • Critical Risk Contingencies of the proposal, Scheduling and milestones	
Unit 4	Venture Development • Steps involved in starting of Venture • Institutional support • Venture funding • Marketing • New trends in entrepreneurship	6
	Total	35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____________Padma Chari____ DEPARTMENT: _________________BMS___________ CLASS: ___TYBMS________________ SEMESTER: ___V____________ MONTH: _____June2022__________ ACADEMIC YEAR: ___________2022-23________

LEARNING OBJECTIVE/S: To ensure that the learner understand show to hedge his risks, diversifying his portfolio. • To enable the leaner to understand global diversification and hedging against inflation and deflation. • To understand complex financial instruments that are used for various purposes, including hedging.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	Unit-I Basics **1. Introduction to Commodites Market and Derivatives Market (15 Lec.)** (a) Introduction to Commodites Market : Meaning, History and Origin, Types of Commodities Traded, Structure of Commodities Market in India, Participants in Commodities Market, Trading in Commodities in India (Cash and Derivative Segment), Commodity Exchanges in India and Abroad, Reasons for Investing in Commodities (b) Introduction to Derivatives Market : Meaning, History and Origin, Elements of a Derivative Contract, Factors Driving Growth of Derivatives Market, Types of Derivatives, Types of Underlying Assets, Participants in Derivatives Market,	10	Commodity & Derivative Market by Vipul prakashan	Offline-Chalk & board Case studies

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	Advantages and Disadvantages of Trading in Derivatives Market, Current Volumes of Derivative Trade in India, Difference Between Forwards and Futures			
	Unit-II Futures **2. Futures and Hedging (15 Lec.)** (a) Futures : Futures Contract Specification, Terminologies, Concept of Convergence, Relationship Between Futures Price and Expected Spot Price, Basis and Basis Risk, Pricing of Futures Contract, Cost of Carry Model (b) Hedging : Speculation and Arbitrage using Futures, Long Hedge – Short Hedge, Cash and Carry Arbitrage, Reverse Cash and Carry Arbitrage, Payoff Charts and Diagrams for Futures Contract, Perfect and Imperfect Hedge	10		
	Unit-III Options **3. Options and Option Pricing Models (15 Lec.)** (a) Options : Options Contract Specifications, Terminologies, Call Option, Put Option, Difference Between Futures and Options, Trading of Options, Valuation of Options Contract, Factors affecting Option Premium, Payoff Charts and Diagrams for Options Contract, Basic Understanding of Options Strategies (b) Option Pricing Models : Binomial Option Pricing Model, Black-Scholes Option Pricing Model	10		
	Unit-IV **Trading, Clearing and Settlement in Derivatives Market and Types of Risk (15 Lec.)**	10		

	(a) Trading, Clearing and Settlement in Derivatives Market: Meaning and Concept, SEBI Guidelines, Trading Mechanism – Types of Orders, Clearing Mechanism – NSCCL – Its Objectives and Functions, Settlement Mechanism – Types of Settlement (b) Types of Risk : Value at Risk, Methods of calculating VaR, Risk Management Measures, Types of Margins, SPAN Margin			
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___40___

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Marketing** **SEM.: IV**

SUBJECT: Consumer Behaviour

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Identify the major influences in consumer behaviour
- Establish the relevance of consumer behaviour theories and concepts to marketing decisions
- Implement appropriate combinations of theories and concepts
- Able to define the importance of group effects in consumer behavior
- Able to explain the consumer purchasing decision process.

Unit No.	Topic	No. Of Lectures Required
Unit 1	Introduction To Consumer Behaviour: Meaning of Consumer Behaviour, Features and Importance Types , Profiling the consumer and understanding their needs, Consumer Involvement ,Application of Consumer Behaviour knowledge in Marketing, Consumer Decision Making Process, Behaviour, factors affecting each stage, and Need recognition	09
Unit 2	Individual- Determinants of Consumer Behaviour: Theories - Maslow, Mc Cleland, Personality – Concept, Nature of personality, Freudian, non - Freudian, Self Concept,Consumer Perception, Learning , Attitude	09

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Unit No.	Topic	No. Of Lectures Required
Unit 3	Environmental Determinants of Consumer Behaviour: Family Influences, Roles of different members, Factors affecting the need, Social Class and Influences, Group Dynamics group versus out-group influences, role of opinion, Cultural Influences on Consumer Behaviour	09
Unit 4	Consumer decision making models and NewTrends: Consumer Decision making models: Howard Sheth Model, Engel Blackwell, Miniard Model, Nicosia Models of Consumer Decision Making, Diffusion of innovations Process,E-Buying behaviour	08
	Total	**35**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____________Padma Chari____ DEPARTMENT: _________________BMS___________ CLASS: ___TYBMS(Mkt)______________ SEMESTER: ___V____________ MONTH: _____June2022___________ ACADEMIC YEAR: ___________2022-23 Sub-ecommerce________

LEARNING OBJECTIVE/S:
The learners will be able to :

To provide knowledge about E Commerce and to prepare the student for vocational competency including training and development of skill. • To encourage the students to do content writing. • To create awareness about the trends and future of E commerce and Digital marketing

The learner can write a blog. • The learner can put up content on social media. • The learner understands the importance of E Commerce

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	Unit-I • Ecommerce- Meaning, Features of E-commerce, Categories of E-Commerce, Advantages &Limitations of E-Commerce, Traditional Commerce &E-Commerce • Ecommerce Environmental Factors: Economic, Technological, Legal, Cultural & Social • Factors Responsible for Growth of E-Commerce, Issues in Implementing ECommerce, Myths of E-Commerce • Impact of E-Commerce on Business, Ecommerce in India • Trends in E-Commerce in Various Sectors: Retail, Banking, Tourism, Government, Education Basis of	10	ECommerce by Vipul Prakashan R. Kalokota, Andrew V. Winston, Electronic Commerce - A Manger's Guide, Pearson Education • Tripathi, E-	Offline chalk & board

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	Product management in E commerce Online Offline – Phygital store Concept of MVP (Minimum Viable Product)		Commerce, Jaico Publishing House, Mumbai, Edn. 2010.	
	Unit-II E-Business: Meaning, Launching an E-Business, Different phases of Launching an EBusiness • Important Concepts in E-Business: Data Warehouse, Customer Relationship Management, Enterprise Resource Planning • Bricks and Clicks business models in E-Business: Applications: E-Procurement, ECommunication, EDelivery, E-Auction, E-Trading. • Electronic Data Interchange (EDI) in E-Business: Meaning of EDI, Benefits of EDI, Drawbacks of EDI, Applications of EDI. • Website: Design and Development of Website, Advantages of Website, Principles of Web Design, Life Cycle Approach for Building a Website, Different Ways of Building a Website LinkedIn content strategy Selling on Online platforms	10		
	Unit-III Issues Relating to Privacy and Security in E-Business • Electronic Payment Systems: Features, Different Payment Systems: Debit Card, Credit Card, Smart Card, E-cash, E-Cheque, E-wallet, Electronic Fund Transfer. • Payment Gateway: Introduction, Payment Gateway Process, Payment Gateway Types, Types of Transaction Security •	10		

	E-Commerce Laws: Need for E-Commerce laws, E-Commerce laws in India, Legal			
	Unit-IV Introduction to Digital Marketing, • Various Activities of Digital Marketing: Search Engine Optimization, Search Engine Marketing, Content Marketing & Content Influencer Marketing, Campaign Marketing, Email Marketing, Display Advertising, Blog Writing, Viral Marketing, Podcasts & Vodcasts. • Digital Marketing on various Social Media platforms. • Online Advertisement, Online Marketing Research, Online PR • Web Analytics • Promoting Web Traffic • Latest developments and Strategies in Digital Marketing	10		
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___40__

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____________Padma Chari____ DEPARTMENT: _________________BMS___________ CLASS: ___TYBMS________________ SEMESTER: ___V____________ MONTH: _____June2022___________ ACADEMIC YEAR: ___________2022-23________

LEARNING OBJECTIVE/S:
The learners will be able to :

 To familiarize the student with the fundamental aspects of risk 12 management and control To give a comprehensive overview of risk governance and assurance with special reference to insurance sector To introduce the basic concepts, functions, process, techniques of risk management Outcomes: This curriculum is designed to help students understand and assess various types of risk and identify methods to reduce or mitigate the risk.______

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	(a) Foundation of Corporate Communication Definition, Risk Process, Risk Organization, Key Risks – Interest, Market, Credit, Currency, Liquidity, Legal, Operational (b) Risk Management vs. Risk Measurement Risk Management vs. Risk Measurement, Managing Risk, Diversification, Investment Strategies and Introduction to Quantitative Risk Measurement and its Limitations (c) Principals of Risk Principals of Risk, Alpha, Beta, R squared, Standard Deviation, Risk Exposure Analysis, Risk Immunization, Risk and Summary Measures –	10	Risk Mgt by Vipul prakashan	Offline-Chalk & board

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	Simulation Method, Duration Analysis, Linear and Other Statistical Techniques for Internal Control			
	Unit-II/Derivatives & ERM (a) Risk Hedging Instruments and Mechanism: Forwards, Futures, Options, Swaps and Arbitrage Techniques, Risk Return Trade-off, Markowitz Risk Return Model, Arbitrage Theory, System Audit Significance in Risk Mitigation (b) Enterprise Risk Management: Risk Management vs. Enterprise Risk Management, Integrated Enterprise Risk Management, ERM	10		
	Unit-III/Risk Governance & Risk assurance (a) Risk Governance: Importance and Scope of Risk Governance, Risk and Three Lines of Defense, Risk Management and Corporate Governance (b) Risk Assurance: Purpose and Sources of Risk Assurance, Nature of Risk Assurance, Reports and Challenges of Risk (c) Risk and Stakeholders' Expectations: Identifying the Range of Stakeholders and Responding to Stakeholders' Expectations	10		
	Insurance Industry (a) Insurance Industry: Global Perspective, Regulatory Framework in India, IRDA – Reforms, Powers, Functions and Duties. Role and Importance of Actuary (b) Players of Insurance Business: Life and Non-life Insurance, Reinsurance, Bancassurance, Alternative Risk Trance,	10		

	Insurance Securitization, Pricing of Insurance Products, Expected Claim Costs, Risk Classification (c) Claim Management: General Guidelines, Life Insurance, Maturity, Death, Fire, Marine, Motor Insurance and Calcula			
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____40___

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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra
Class & Specialization: SYBMS (MKT)
Semester: III
Subject: Advertising
Date:
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- To understand and examine the growing importance of advertising
- To understand the construction of an effective advertisement
- To understand the role of advertising in contemporary scenario
- To understand the future and career in advertising

Unit No.	Topics	No. of Lectures Allotted
I	Introduction to Advertising • Definition, Evolution of Advertising, Importance, Scope, Features, Benefits, Five M's of Advertising • Types of Advertising –consumer advertising, industrial advertising, institutional advertising, classified advertising, national advertising, generic advertising • Theories of Advertising : Stimulus Theory, AIDA, Hierarchy Effects Model, Means – End Theory, Visual Verbal Imaging, Cognitive Dissonance • Ethics and Laws in Advertising : Puffery, Shock Ads, Subliminal Advertising, Weasel Claim, Surrogate Advertising, Comparative Advertising Code of Ethics, Regulatory Bodies, Laws and Regulation – CSR, Public Service Advertising, Corporate Advertising, Advocacy Advertising • Social, cultural and Economic Impact of Advertising, the impact of ads on Kids, Women and Advertising	15
II	Strategy and Planning Process in Advertising • Advertising Planning process & Strategy : Introduction to Marketing Plan, Advertising Plan- Background, situational analysis related to Advertising issues, Marketing Objectives, Advertising Objectives, Target Audience, Brand Positioning (equity, image personality), creative Strategy, message strategy, media strategy, Integration of advertising with other communication tools • Role of Advertising in Marketing Mix : Product planning, product brand policy, price, packaging, distribution, Elements of Promotion, Role of Advertising in PLC • Advertising Agencies – Functions – structure – types - Selection criteria for Advertising agency – Maintaining Agency–client relationship, Agency Compensation.	15
III	Creativity in Advertising • Introduction to Creativity – definition, importance, creative process , Creative strategy development – Advertising Campaign – determining the message theme/major selling ideas – introduction to USP – positioning strategies – persuasion and types of advertising appeals – role of source in ads and celebrities as source in Indian ads – execution styles of presenting ads. • Role of different	15

	elements of ads – logo, company signature, slogan, tagline, jingle, illustrations, etc – • Creating the TV commercial – Visual Techniques, Writing script, developing storyboard, other elements (Optical, Soundtrack, Music) • Creating Radio Commercial – words, sound, music – scriptwriting the commercial – clarity, coherence, pleasantness, believability, interest, distinctiveness • Copywriting: Elements of Advertisement copy – Headline, sub-headline, Layout, Body copy, slogans. Signature, closing idea, Principles of Copywriting for print, OOH, essentials of good copy, Types of Copy, Copy Research	
IV	Budget, Evaluation, Current trends and careers in Advertising • Advertising Budget – Definition of Advertising Budget, Features, Methods of Budgeting • Evaluation of Advertising Effectiveness – Pre-testing and Post testing Objectives, Testing process for Advertising effectiveness, Methods of Pretesting and Post-testing, Concept testing v/s Copy testing • Current Trends in Advertising : Rural and Urban Advertising, Digital Advertising, Content Marketing (Advertorials), retail advertising, lifestyle advertising, Ambush Advertising, Global Advertising – scope and challenges – current global trends • Careers in Advertising : careers in Media and supporting firms, freelancing options for career in advertising, role of Advertising Account Executives, campaign Agency family tree – topmost advertising agencies and the famous advertisements designed by them	15
		60

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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra

Class & Specialization: SYBMS (MKT)

Semester: III

Subject: FC III (Environmental Management)

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To understand and examine the growing importance of environment
- To understand the role of resources in contemporary scenario

Unit No.	Topics	No. of Lectures Allotted
I	**Environmental Concepts:** • Environment: Definition and composition, Lithosphere, Atmosphere, Hydrosphere, Biosphere • Biogeochemical cycles - Concept and water cycle • Ecosystem & Ecology; Food chain, food web & Energy flow pyramid • Resources: Meaning, classification(Renewable & non-renewable), types & Exploitation of Natural resources in sustainable manner	15
II	**Environment degradation** • Degradation-Meaning and causes, degradation of land, forest and agricultural land and its remedies • Pollution – meaning, types, causes and remedies (land, air, water and others) • Global warming: meaning, causes and effects. • Disaster Management: meaning, disaster management cycle. • Waste Management: Definition and types -solid waste management anthropogenic waste, e-waste & biomedical waste (consumerism as a cause of waste)	15
III	**Sustainability and role of business** • Sustainability: Definition, importance and Environment Conservation. • Environmental clearance for establishing and operating Industries in India. • EIA, Environmental auditing, ISO 14001 • Salient features of Water Act, Air Act and Wildlife Protection Act. • Carbon bank & Kyoto protocol	15
IV	**Innovations in business-** an environmental perspective Non-Conventional energy sources- Wind, Bio-fuel, Solar, Tidal and Nuclear Energy. Innovative Business Models: Eco-tourism, Green marketing, Organic farming, Ecofriendly packaging, Waste management projects for profits ,other business projects for greener future	15
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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2019-2020)

Name of the Teacher: Swati Sonagra

Class & Specialization: TYBMS (MKT)

Semester:V

Subject: Sales and Dist

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To develop understanding of the sales & distribution processes in organizations
- To get familiarized with concepts, approaches and the practical aspects of the key decision making variables in sales management and distribution channel management

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction** a) Sales Management: • Meaning, Role of Sales Department, Evolution of Sales Management • Interface of Sales with Other Management Functions • Qualities of a Sales Manager • Sales Management: Meaning, Developments in Sales ManagementEffectiveness to Efficiency, Multidisciplinary Approach, Internal Marketing, Increased Use of Internet, CRM, Professionalism in Selling. • Structure of Sales Organization – Functional, Product Based, Market Based, Territory Based, Combination or Hybrid Structure b) Distribution Management: • Meaning, Importance, Role of Distribution, Role of Intermediaries, Evolution of Distribution Channels. c) Integration of Marketing, Sales and Distribution	15
II	**Market Analysis and Selling** a) Market Analysis: • Market Analysis and Sales Forecasting, Methods of Sales Forecasting • Types of Sales Quotas – Value Quota, Volume Quota, Activity Quota, Combination Quota • Factors Determining Fixation of Sales Quota • Assigning Territories to Salespeople b) Selling: • Process of Selling, Methods of Closing a Sale, Reasons for Unsuccessful Closing • Theories of Selling – Stimulus Response Theory, Product Orientation Theory, Need Satisfaction Theory • Selling Skills – Communication Skill, Listening Skill, Trust Building Skill, Negotiation Skill, Problem Solving Skill, Conflict Management Skill • Selling Strategies – Softsell Vs. Hardsell Strategy, Client Centered Strategy, Product-Price Strategy, Win-Win Strategy, Negotiation Strategy • Difference Between Consumer Selling and Organizational Selling • Difference Between National Selling and International Selling	15
III	**Distribution Channel Management** • Management of Distribution Channel – Meaning & Need • Channel Partners-Wholesalers, Distributors and Retailers & their Functions in Distribution Channel, Difference Between a Distributor and a Wholesaler • Choice of Distribution System – Intensive, Selective, Exclusive • Factors Affecting Distribution Strategy –	15

	Locational Demand, Product Characteristics, Pricing Policy, Speed or Efficiency, Distribution Cost • Factors Affecting Effective Management Of Distribution Channels ♣ Channel Design ♣ Channel Policy ♣ Channel Conflicts: Meaning, Types – Vertical, Horizontal, Multichannel, Reasons for Channel Conflict ♣ Resolution of Conflicts: Methods – Kenneth Thomas's Five Styles of Conflict Resolution ♣ Motivating Channel Members ♣ Selecting Channel Partners ♣ Evaluating Channels ♣ Channel Control	
IV	**Performance Evaluation, Ethics and Trends** a) Evaluation & Control of Sales Performance: • Sales Performance – Meaning • Methods of Supervision and Control of Sales Force • Sales Performance Evaluation Criteria- Key Result Areas (KRAs) • Sales Performance Review • Sales Management Audit b) Measuring Distribution Channel Performance: • Evaluating Channels-Effectiveness, Efficiency and Equity • Control of Channel – Instruments of Control – Contract or Agreement, Budgets and Reports, Distribution Audit c) Ethics in Sales Management d) New Trends in Sales and Distribution Management	15
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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2019-2020)

Name of the Teacher: SWATI SONAGRA

Class & Specialization: TYBMS (HR)

Semester:V

Subject: STRATEGIC HUMAN RESOURCE MGT

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

- To understand human resource management from a strategic perspective
- To link the HRM functions to corporate strategies in order to understand HR as a strategic resource
- To understand the relationship between strategic human resource management and organizational performance
- To apply the theories and concepts relevant to strategic human resource management in contemporary organizations
- To understand the purpose and process of developing Human Resource policies

Unit No.	Topics	No. of Lectures Allotted
I	**SHRM - An Overview** • Strategic Human Resource Management (SHRM) – Meaning, Features, Evolution, Objectives, Advantages, Barriers to SHRM, SHRM v/s Traditional HRM, Steps in SHRM, Roles in SHRM - Top Management, Front-line Management, HR, Changing Role of HR Professionals, Models of SHRM – High Performance Working Model, High Commitment Management Model, High Involvement Management Model • HR Environment –Environmental trends and HR Challenges • Linking SHRM and Business Performance	15
II	**HR Strategies** • Developing HR Strategies to Support Organisational Strategies, Resourcing Strategy – Meaning and Objectives, Strategic HR Planning – Meaning, Advantages, Interaction between Strategic Planning and HRP, Managing HR Surplus and Shortages, Strategic Recruitment and Selection – Meaning and Need, Strategic Human Resource Development – Meaning, Advantages and Process, Strategic Compensation as a Competitive Advantage, Rewards Strategies – Meaning, Importance, Employee Relations Strategy, Retention Strategies, Strategies for Enhancing Employee Work Performance	15
III	**HR Policies** • Human Resource Policies – Meaning, Features, Purpose of HR Policies, Process of Developing HR Policies, Factors affecting HR Policies, Areas of HR Policies in Organisation, Requisites of a Sound HR Policies – Recruitment, Selection, Training and Development, Performance Appraisal, Compensation, Promotion, Outsourcing, Retrenchment, Barriers to Effective Implementation of HR Policies and Ways to Overcome These Barriers, Need for Reviewing and Updating HR Policies, Importance of Strategic HR Policies to Maintain Workplace Harmony	15

IV	**Recent Trends in SHRM** • i.e. Mentoring • Employee Engagement – Meaning, Factors Influencing Employee Engagement, Strategies for Enhancing Employee Engagement • Contemporary Approaches to HR Evaluation – Balance Score Card, HR Score Card, Benchmarking and Business Excellence Model • Competency based HRM – Meaning, Types of Competencies, Benefits of Competencies for Effective Execution of HRM Functions. • Human Capital Management –Meaning and Role • New Approaches to Recruitment – Employer Branding, Special Event Recruiting, Contest Recruitment, e - Recruitment • Strategic International Human Resource Management – Meaning and Features, International SHRM Strategic Issues, Approaches to Strategic International HRM.	15
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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra

Class & Specialization: TYBMS (MKT)

Semester: V

Subject: Strategic Marketing Management

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To understand marketing strategies and their impact on business models
- To learn strategic marketing tactics related to product, price, service, brand, positioning, incentives and communication for business growth.
- To learn the various marketing strategies adopted by Companies to create a competitive advantage

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction to Strategic Marketing Management** • Marketing: Nature of Marketing, marketing as an art, science and business discipline, marketing as a value creation process • Strategic decisions: Nature of strategy, the marketing strategy interface, difference between marketing planning and strategic planning • Identifying the market: The five C framework-customer, company, collaborator, competitor, context • The 7 tactics of Marketing mix: Product, service, brand, price ,incentives, communication and distribution • Business Model and Strategic Marketing Planning: Meaning, Role of Business models in marketing management, Strategies for developing a business models: top-down business model generation, bottom up business model generation, The G-STIC frame work for marketing planning: Goal-Strategy-Tactics-Implementation-control	15
II	**Segmenting, Targeting, Positioning and Creation of Value in the context of Strategic Marketing:** • Segmentation: Essence of segmentation, Factors to be considered while segmenting, key segmenting principles- relevance, similarity, exclusivity • Identifying Target Customers: Factors to be considered while targeting, targeting strategies-One for all strategy, one for each strategy, Strategic Targeting criteria: target attractiveness, target compatibility Essential strategic assets for target compatibility: business infrastructure, collaborator networks, human capital, intellectual property, strong brands, established customer base, synergistic offerings, access to scarce resources and capital. • Creating Customer Value through Positioning: Role of strategic positioning, strategic positioning options: The quality option, value option, the pioneer, a narrow product focus, target segment focus; strategies for creating superior customer value. Creating Company Value: Understanding Company Value: Monetary, functional and psychological value; strategically managing profits--increasing sales revenue-through volume, optimizing price, lowering costs Creating Collaborator Value: Meaning of	15

	collaborators, collaboration as business process, advantages and drawbacks of collaboration, levels of strategic collaboration: explicit, implicit; alternatives to collaboration: horizontal and vertical integration, managing collaborator relations; gaining collaborator power: offering differentiation; collaborator size, strategic importance, switching costs	
III	**Strategic Decisions in Product, Services and Branding** • Managing Product and Services: factors affecting product and service decisionsperformance, consistency, reliability, durability, compatibility, ease of use, technological design, degree of customization, physical aspects, style, packaging. Managing New Products: Forecasting new product demand using Primary Data and secondary data: offering specific forecasting, forecasting by analogy, category based forecasting. New product adoption: Understanding new product adoption, factors influencing diffusion of new offering, new product development process, managing risk in new products- market risk and technological risk, Moore's Model of adoption of new technologies, managing product life cycle at various stages, extending Product lifecycle. • Managing Product Lines: Managing vertical, upscale, downscale, horizontal product-Line Extensions, Managing Product Line Cannibalization, Managing Product lines to gain and defend market position-The Fighting Brand Strategy, The sandwich strategy, The Goodbetter-best strategy • Brand Tactics: Brand: Meaning, brand identity, brand as value creation process brand hierarchy-Individual and umbrella branding, brand extension: vertical and horizontal, brand equity and brand power, measuring brand equity-cost based approach, market based approach and financial based approach.	15
IV	**Strategic Decisions in Pricing, Promotion and Distribution and strategic growth management** A) Managing Price: Major approaches to strategic pricing-cost based pricing, competitive pricing, demand pricing; Price sensitivity: meaning, psychological pricing, Five psychological pricing effects: reference price effects, price quantity effects, price tier effects, price ending effects, product line effects; Understanding competitive pricing and price wars: factors affecting price wars, Approach for developing a strategic response to competitors price cut, Other pricing strategies-captive pricing, cross price elasticity, deceptive pricing, everyday low pricing, experience curve pricing, loss leader pricing, horizontal price fixing, price signalling. B) Managing Promotions and incentives: Promotion mix strategy, Factors affecting strategic decisions in promotion mix, Promotion expenditure strategy, Methods to determine promotion expenditure-Breakdown Method, Buildup Method, Push and Pull promotions. Managing incentives as a value creation process, Goals of using customer incentives, Monetary incentives for customers, Non monetary incentives for customers. Collaborator incentives meaning, monetary incentives-slotting allowance, stocking allowance, cooperative advertising allowance, market development allowance, display allowance, spiffs C) Managing distribution: Distribution as value creation process, distribution channel design process-Channel structure: Direct, indirect and hybrid channel; channel coordination-common ownership, contractual relationship, implicit channel coordination; channel type, channel coverage, channel exclusivity D) Strategic Growth Management: Gaining market position: strategies to gain market position: steal share strategy, market growth strategy, market innovation strategy; Pioneering new markets: Meaning, Types of Pioneers: technology, product, business model, markets; benefits and drawbacks of being a Pioneer. Defending market position: Strategies to defend market position- ignoring competitors' action, repositioning the existing offer- repositioning to increase value for current customers, repositioning to attract new customers.	15
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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: TYBMS SPECIALIZATION: Marketing SEM.: VI SUBJECT: Brand Management (BM)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- The course will help students understand how a new product is developed and maintained.
- Enhance students' ability to apply creative and critical strategies and tactics involved in developing, positioning, leveraging, managing a brand, and measuring its value.
- Apply branding principles and marketing communication concepts and frameworks to achieve brand management goals and improve marketing performance.

UNIT	TOPIC	No. of Lectures
I	Introduction to Brand Management: Meaning of Brand, Branding, Brand Management, Importance, Brands v/s Products, Scope,Branding, Challenges and Opportunities, CBBE, Sources of Brand Equity, Brand Building Blocks, Brand Positioning	09
II	Planning and Implementing Brand Marketing Programs Brand Elements, Integrating Marketing Programs and Activities, Personalising Marketing, Product Strategy, Pricing Strategy: Setting Prices to Build Brand Equity, Channel Strategy: Direct, Indirect Channels, Promotion Strategy: Developing Integrated Marketing Communication Programs, Leveraging Secondary Brand Associations to Build Brand Equity	10
III	Measuring and Interpreting Brand Performance	11

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	The Brand Value Chain, Measuring Sources of Brand Equity, Comparison, Brand Personality and Values: The Big Five, Quantitative Research Techniques, Brand Awareness, Brand Image, Brand Responses, Young and Rubicam's Brand Asset Valuator, Measuring Outcomes of Brand Equity, Comparative Methods: Brand based Comparative Approaches, Marketing, Holistic Methods: Residual Approaches, Valuation Approaches: Historical Perspectives and Interbrand's Brand Valuation Methodology	
IV	Growing and Sustaining Brand Equity, Designing & Implementing, Brand ArchitectureThe Brand-Product Matrix, Brand Hierarchy, Cause Marketing,Brand Extensions, Managing Brands, Reinforcing Brands, Revitalising Brands, Building Global Customer Based Brand Equity	10
	TOTAL	**40**

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ACADEMIC YEAR 2022-23 (TERM II)
TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Mkt & HR** **SEM.: IV**

SUBJECT: Business Research Methods (BRM)

Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:

- To develop understanding of the basic framework of the research process.
- To develop an understanding of various research designs and techniques.
- To identify various sources of information for literature review and data collection.
- understand some basic concepts of research and its methodologies organize and conduct research in a more appropriate manner
- write a research proposal

Sr. No.	UNIT	TOPIC	No. of Lectures
1	I	Introduction to BRM- Meaning, Objectives, types, concepts	4
2	I	Stages, characteristics, hypothesis, Research design, sampling	6
3	II	Data Collection & Processing- Types & Methods of data	4
4	II	Survey, Survey Instrument, Scaling Techniques	6

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5	III	Data Analysis & Interpretation- Processing, Analysis & interpretation	6
6	III	Multivariate Analysis, testing hypothesis	4
7	IV	Advanced techniques in report writing- Report Writing	4
8	IV	Ethics in research	3
9	IV	Objectivity, confidentiality & anonymity in research, Plagiarism	3
		TOTAL	**40**

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NAAC accredited "B" Grade, 2.69 CGPA

Department of Management Studies (BMS)

Teaching Plan (Term-II, 2022-2023)

Name of the Teacher: Swati Sonagra

Class & Specialization: FYBMS

Semester: II

Subject: Business Environment

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Introduction to Business Environment
- Political and Legal environment
- Social and Cultural Environment, Technological environment and Competitive Environment
- International Environment

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction to Business Environment** • Business: Meaning, Definition, Nature & Scope, Types of Business Organizations • Business Environment: Meaning, Characteristics, Scope and Significance, Components of Business Environment • Micro and Macro Environment: Definition, Differentiation, Analysis of Business Environment, SWOT Analysis. • Introduction to Micro-Environment: ♣ Internal Environment: Value system, Mission, Objectives, Organizational Structure, Organizational Resources, Company Image, Brand Equity ♣ External Environment: Firm, customers, suppliers, distributors, Competitors, Society • Introduction to Macro Components: Demographic, Natural, Political, Social, Cultural, Economic, Technological, International and Legal)	15
II	**Political and Legal environment** • Political Institutions: Legislature, Executive, Judiciary, Role of government in Business, Legal framework in India. • Economic environment: economic system and economic policies. Concept of Capitalism, Socialism and Mixed Economy • Impact of business on Private sector, Public sector and Joint sector • Sun-rise sectors of India Economy. Challenges of Indian economy.	15
III	**Social and Cultural Environment, Technological environment and Competitive Environment** • Social and Cultural Environment: Nature, Impact of foreign culture on Business, Traditional Values and its Impact, Social Audit - Meaning and Importance of Corporate Governance and Social Responsibility of Business • Technological environment: Features, impact of technology on Business • Competitive Environment: Meaning, Michael Porter's Five Forces Analysis, Competitive Strategies	15
IV	**International Environment**	15

	• International Environment – ♣ GATT/ WTO: Objective and Evolution of GATT, Uruguay round, GATT v/s WTO, Functions of WTO, Pros and Cons of WTO. ♣ Globalization: Meaning, Nature and stages of Globalization, features of Globalization, Foreign Market entry strategies, LPG model. ♣ MNCs: Definition, meaning, merits, demerits, MNCs in India ♣ FDI: Meaning, FDI concepts and functions, Need for FDI in developing countries, Factors influencing FDI, FDI operations in India, • Challenges faced by International Business and Investment Opportunities for Indian Industry.	
		60

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Marketing** **SEM.: IV**

SUBJECT: Integrated Marketing Communication (IMC)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Choose a marketing communication mix to achieve the communications and behavioural objectives of the IMC campaign plan.
- Develop an integrated cross-media strategy and creative message and concept to reach the target audience and deliver the brand promise through an IMC campaign.
- Measure and critically evaluate the communications effects and results of an IMC campaign to determine its success.

Sr. No.	UNIT	TOPIC	No. of Lectures
1	I	Introduction to IMC- Meaning, features, evolution, reasons for growth	4
2	I	Promotional Tools, IMC Planning process, Role	3
3	I	Communication process, Hierarchy models	3
4	I	Establishing objectives & budgeting	3
5	II	Elements of IMC-I –Advertising-features, role, advantages & disadvantages, Types	4

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6	II	Sales Promotion: Scope, role, Reasons, advantages & disadvantages, types, Strategies, evaluation	3
7	III	Elements of IMC-II-Direct Marketing-Role, objectives, components, tools	4
8	III	Public Relation & Publicity- Role, advantages & disadvantages, Types, tools, Sponsorship	3
9	III	Personal Selling-Features, role, advantages & disadvantages, importance	3
10	IV	Evaluating an integrated marketing program	4
11	IV	Ethics & marketing communication	3
12	IV	Current trends in IMC	3
		TOTAL	**40**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____________________padma R chari___________________BMS______________________ DEPARTMENT: ___________________________ CLASS: __TYBMS________________ SEMESTER: ________VI_____ MONTH: _________December_______ ACADEMIC YEAR: _____2022-23__________

LEARNING OBJECTIVE/S:
The learners will be able to : The objective of this course is to familiarize the student with the fundamental aspects of various issues associated with International Finance The course aims to give a comprehensive overview of International Finance as a separate area in International Business & to introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of International Finance in this Globalized Market

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit-I a) Introduction to International Finance: • Meaning/ Importance of International Finance, Scope of International Finance, Globalization of the World Economy, Goals of International Finance, The Emerging Challenges in International Finance b) Balance of Payment: • Introduction to Balance of Payment, Accounting Principles in Balance of Payment, Components of Balance of Payments, Balance of Payment Identity Indian Heritage in Business, Management, Production and Consumption. c) International Monetary	10	Vipul Prakashan	Offline Chalk & board

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	Systems: • Evolution of International Monetary System , Gold Standard System , Bretton Woods System, Flexible Exchange Rate Regimes – 1973 to Present, Current Exchange Rate Arrangements, European Monetary System, Fixed & Flexible Exchange Rate System d) An introduction to Exchange Rates: • Foreign Bank Note Market, Spot Foreign Exchange Market • Exchange Rate Quotations Direct & Indirect Rates Cross Currency Rates Spread & Spread % • Factors Affecting Exchange Rates 2 Foreign Exchange Markets, Exchange Rate			
	Unit-II Foreign Exchange Markets, Exchange Rate Determination & Currency Derivatives a) Foreign Exchange Markets: • Introduction to Foreign Exchange Markets, Structure of Foreign Exchange Markets, Types of Transactions & Settlement Date, Exchange Rate Quotations & Arbitrage, Forward Quotations (Annualized Forward Margin) b) International Parity Relationships & Foreign Exchange Rate: • Interest Rate Parity, Purchasing Power Parity & Fishers Parity, Forecasting Exchange Rates (Efficient Market Approach, Fundamental Approach, Technical Approach, Performance of the Forecasters), Global Financial Markets & Interest Rates (Domestic & Offshore Markets, Money Market Instruments) c) Currency & Interest Rate Futures: • Introduction to Currency Options (Option on Spot, Futures & Futures Style Options), Futures Contracts, Markets & the Trading Process,	10		

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	Hedging & Speculation with Interest Rate Futures, Currency Options in India			
	UnitWorld Financial Markets & Institutions & Risks a) Euro Currency Bond Markets: • Introduction to Euro Currency Market, Origin of Euro Currency Market, Euro Bond Market (Deposit, Loan, Notes Market), Types of Euro Bonds, Innovation in the Euro Bond Markets, Competitive Advantages of Euro Banks, Control & Regulation of Euro Bond Market b) International Equity Markets & Investments: • Introduction to International Equity Market, International Equity Market Benchmarks, Risk & Return from Foreign Equity Investments, Equity Financing in the International Markets, Depository Receipts – ADR,GDR,IDR c) International Foreign Exchange Markets: • Meaning of International Foreign Exchange Market, FERA v/s FEMA, Scope & Significance of Foreign Exchange Markets, Role of Forex Manager, FDI v/s FPI, Role of FEDAI in Foreign Exchange Market d) International Capital Budgeting: • Meaning of Capital Budgeting, Capital Budgeting Decisions, Incremental Cash Flows, Cash Flows at Subsidiary and Parent Company, Repatriation of Profits, Capital Budgeting Techniques – NPV -III	10		
	Unit-IV	10		

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	a) Foreign Exchange Risk Management: • Introduction to Foreign Exchange Risk Management, Types of Risk, Trade & Exchange Risk, Portfolio Management in Foreign Assets, Arbitrage & Speculation b) International Tax Environment: • Meaning of International Tax Environment, Objectives of Taxation, Types of Taxation, Benefits towards Parties doing Business Internationally, Tax Havens, Tax Liabilities c) International Project Appraisal: • Meaning of Project Appraisal, Review of Net Present Value Approach (NPV), Option Approach to Project Appraisal, Project Appraisal in the International Context, Practice of Investment Appraisal			
		40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _40______

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: TYBMS SPECIALIZATION: Marketing SEM.: VI SUBJECT: Media Planning & Management (MPM)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Students will perceive about Media Planning, Strategy and Management with reference to current business scenario
- Students absorb the information related to the basic characteristics of all media
- students will comprehend an insight on Media Planning, Budgeting, Scheduling and Evaluating the Different Media Buys
- Students will be able to analyze international and domestic marketing and media metrics.

UNIT	TOPIC	No. of Lectures
I	Overview of Media and Media Planning: Meaning of Media & Features of Media, Meaning of Media Planning , Scope, Elements, Role , Process, Impact of Marketing Objectives, Factors Influencing, Role and Importance of Media in Consumer Buying Decision, Role of Media Planner, Challenges of, Organization Structure, Regulatory Framework, Legal Aspects Media Research:Meaning, Role and Importance, Sources of Media Research	11
II	Media Mix and Media Strategy Meaning, Need, Identifying Audience for Mass Media , Factors Affecting, Types, Media Choices, Print, Television, Radio, Out of Home (OOH), Emerging Media Media Strategy:Meaning, Need, Situation Analysis, Steps in Formulating Media Strategies	09
III	Media Budgeting, Buying & Scheduling: Importance, Methods, Factors, Meaning, Role, Buying Process,Buying brief, Criteria, Scheduling Patterns, Scheduling Strategies, Emphasis, Multiple Spotting, Teasers	11

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IV	Developments in International Marketing: Media Measurement, Basic Metrics,Television Metrics,Radio Metrics Print Metrics, OOH Metrics, Benchmarking Metrics, Plan Metrics, Evaluating Media Buys, Evaluating Print Media Buying, Evaluating Other Media Buys	09
	TOTAL	**40**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____________________padma R chari___________________BMS______________________ DEPARTMENT: ___________________________ CLASS: __TYBMS________________ SEMESTER: ________VI_____ MONTH: _________December______ ACADEMIC YEAR: ____2022-23 __________

LEARNING OBJECTIVE/S:The objective of this course is to familiarize the learners with the fundamental aspects of various issues associated with Project Management and To give a comprehensive overview of Project Management as a separate area of Management also to introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of Project Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit-I Introduction to Project Management & Project Initiation a) Introduction to Project Management: • Meaning/Definition of Project & Project Management, Classification of Projects, Why Project Management, Characteristics/Importance of Project Management, Need for Project Management (Objectives), History of Project Management b) Organizational Structure (Project Organization): • Meaning/Definition of Organizational Structure, Organizational Work Flow, Developing Work Integration Positions, Types of Organizational Structure, Forms of Organization, Strategic Business Units (SBU) in Project Management. c) Project Initiation: • Project	10	Vipul Prakashan	Offline-Chalk & Board

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	Selection-Meaning of Project Selection, Importance of Project Selection, Criteria for Project Selection (Models), Types of Project Selection, Understanding Risk & Uncertainty in Project Selection • Project Manager- Meaning of Project Manager, Role of Project Manager, Importance of Project Manager, Role of Consultants in Project Management, Selecting Criteria for Project Manager • Project Planning-Importance of Project Planning, Functions of Project Planning, System Integration, Project Management Life Cycle, Conflicts & Negotiation			
	Unit-II Analyzing Project Feasibility a) Project Feasibility Analysis: • Meaning/Definition of Project Feasibility, Importance of Project Feasibility, Scope of Project Feasibility • Types of Project Feasibility- Market Feasibility, Technical Feasibility, Financial Feasibility, Economic Viability, Operational Feasibility • SWOT Analysis (Environment Impact Assessment, Social Cost Benefit Analysis) b) Market Analysis: • Meaning of Market Analysis, Demand Forecasting, Product Mix Analysis, Customer Requirement Analysis c) Technical Analysis: • Meaning of Technical Analysis, Use of Various Informational Tools for Analyzing, Advancement in the Era of E- Commerce in Project Management d) Operational Analysis: • Meaning of Operation Management, Importance of Operation Management,	10		

	Operation Strategy - Levels of Decisions, Production Planning & Control, Material Management - Work Study & Method Study, Lean Operations			
	Unity-III 3 Budgeting, Cost & Risk Estimation in Project Management a) Funds Estimation in Project: • Means of Financing, Types of Financing, Sources of Finance, Government Assistance towards Project Management for Start ups, Cost Control (Operating Cycle, Budgets & Allocations), Determining Financial Needs for Projects, Impact of Leveraging on Cost of Finance b) Risk Management in Projects: • What is Risk, Types of Risk in Projects, Risk Management Process, Risk Analysis & Identification, Impact of Risk Handling Measures, Work break Down Structure, New Venture Valuation (Asset Based, Earnings Based, Discounted Cash flow Models) c) Cost Benefit Analysis in Projects • Introduction to Cost Benefit Analysis, Efficient Investment Analysis, Cash - Flow Projections, Financial Criteria for Capital Allocation, Strategic Investment	10		
	Unit-IV New Dimensions in Project Management a) Modern Development in Project Management: • Introduction to Modern Development in Project Management, Project Management Maturity Model (PMMM), Continuous Improvement, Developing Effective Procedural	10		

	Documentation, Capacity Planning b) Project Monitoring & Controlling: • Introduction to Project Monitoring & Controlling, The Planning – MonitoringControlling Cycle, Computerized Project Management Information System (PMIS), Balance in Control System in Project Management, Project Auditing – Life Cycle c) Project Termination & Solving Project Management Problems: • Meaning of Project Termination, Reasons for Termination of Projects, Process for Terminating Projects, Strategy/ Ways to Solve Project Management Problems, Project Review & Administrative Aspects, Execution Tools for Closing of Projects			
		40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT32___40___

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Department of Management Studies (BMS)
Teaching Plan (Term-II, 2022-2023)

Name of the Teacher: Swati Sonagra
Class & Specialization: SYBMS (MKT)
Semester: IV
Subject: Rural Marketing
Date:
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- The objective of this course is to explore the students to the Agriculture and Rural Marketing environment so that they can understand consumer's and marketing characteristics of the same for understanding and contributing to the emerging challenges in the upcoming global economic scenario.

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction** • Introduction to Rural Market, Definition &Scope of Rural Marketing. • Rural Market in India-Size & Scope, Rural development as a core area, Efforts put for Rural development by government (A brief Overview). • Emerging Profile of Rural Markets in India, • Problems of rural market. • Constraints in Rural Marketing and Strategies to overcome constraints	15
II	**Rural Market** • Rural Consumer Vs Urban Consumers– a comparison. • Characteristics of Rural Consumers. • Rural Market Environment: a)Demographics– Population, Occupation Pattern, Literacy Level; b)Economic Factors-Income Generation, Expenditure Pattern, Rural Demand and Consumption Pattern, Rural Market Index; Land Use Pattern, c)Rural Infrastructure -Rural Housing, Electrification, Roads • Rural Consumer Behaviour: meaning, Factors affecting Rural Consumer Behaviour- Social factors, Cultural factors, Technological factors, Lifestyle, Personality.	15
III	**Rural Marketing Mix** • Relevance of Marketing mix for Rural market/Consumers. • Product Strategies, Rural Product Categories-FMCGs, Consumer Durables, Agriculture Goods &Services; Importance of Branding, Packaging and Labelling. • Nature of Competition in Rural Markets, the problem of Fake Brands • Pricing Strategies & objectives • Promotional Strategies. Segmentation, Targeting & Positioning for rural market.	15
IV	**Rural Marketing Strategies** • Distribution Strategies for Rural consumers. Channels of Distribution- HAATS, Mandis, Public Distribution System, Cooperative society, Distribution Models of FMCG, Companies HUL, ITC etc. Distribution networks, Ideal distribution model for rural markets (Case study based) • Communication Strategy. Challenges in Rural	15

	Communication, Developing Effective Communication, Determining Communication Objectives, Designing the Message, Selecting the Communication Channels. Creating Advertisements for Rural Audiences. Rural Media- Mass media, Non-Conventional Media, Personalized media;	
		60

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Department of Management Studies (BMS)

Teaching Plan (Term-II, 2019-2020)

Name of the Teacher: SWATI SONAGRA

Class & Specialization: TYBMS (MKT)

Semester:VI

Subject: RETAIL MANAGEMENT

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To familiarize the students with retail management concepts and operations
- To provide understanding of retail management and types of retailers
- To develop an understanding of retail management terminology including merchandize management, store management and retail strategy.
- To acquaint the students with legal and ethical aspects of retail management
- To create awareness about emerging trends in retail management

Unit No.	Topics	No. of Lectures Allotted
I	**Retail Management- An overview** a) Retail Management: • Introduction and Meaning, Significance, Factors Influencing Retail Management, Scope of Retail Management b) Retail Formats: • Concept of Organized Retailing: Factors Responsible for the Growth of Organized Retail in India, Multichannel Retailing: Meaning and Types, E-tailing: Meaning, Advantages and Limitations c) Emerging Trends in Retailing • Impact of Globalization on Retailing • I.T in Retail: Importance, Advantages and Limitations, Applications of I.T. in Retail: EDI, Bar Coding, RFID Tags, Electronic Surveillance, Electronic Shelf Labels • FDI in Retailing: Meaning, Need for FDI in Indian Retail Scenario • Franchising: Meaning, Types, Advantages and Limitations, Franchising in India • Green Retailing • Airport Retailing	15
II	**Retail Consumer and Retail Strategy** a) Retail Consumer/Shopper: • Meaning of Retail Shopper, Factors Influencing Retail Shoppers, Changing Profile of Retail Shoppers, Market Research as a Tool for Understanding Retail Markets and Shoppers b) CRM in Retail: • Meaning, Objectives • Customer Retention Approaches: Frequent Shopper Programme, Special Customer Services, Personalization, Community c) Retail Strategy: • Meaning, Steps in Developing Retail Strategy, Retail Value Chain d) Store Location Selection: • Meaning, Types of Retail Locations, Factors Influencing Store Location e) HRM in Retail: • Meaning, Significance, Functions • Organization Structure in Retail: Meaning, Factors Influencing Designing Organization Structure, Organization Structure for Small Stores/Single Stores/Independent Retailers and Retail Store Chain/Department Store	15
III	**Merchandise Management and Pricing** a) Merchandise Management • Concept, Types of Merchandise, Principles of	15

	Merchandising, Merchandise Planning- Meaning and Process, Merchandise Category – Meaning, Importance, Components, Role of Category Captain, Merchandise Procurement/SourcingMeaning, Process, Sources for Merchandise b) Buying Function: • Meaning, Buying Cycle, Factors Affecting Buying Functions, Functions of Buying for Different Types of Organizations Young and Rubicam's Brand Asset Valuator- Independent Store, Retail Chain, Non-store Retailer c) Concept of Lifestyle Merchandising d) Private Label • Meaning, Need and Importance, Private Labels in India e) Retail Pricing • Meaning, Considerations in Setting Retail Pricing • Pricing Strategies: High/ Low Pricing: Meaning, Benefits, Everyday Low Pricing: Meaning, Benefits, Market Skimming, Market Penetration, Leader Pricing, Odd Pricing, Single Pricing, Multiple Pricing, Anchor Pricing • Variable Pricing and Price Discrimination- Meaning Types: ♣ Individualized Variable Pricing/First Degree Price ♣ Self-Selected Variable Pricing/ Second Degree Price DiscriminationClearance and Promotional Markdowns, Coupons, Price Bundling, Multiple – Unit Pricing ♣ Variable Pricing by Market Segment/ Third Degree Price Discrimination	
IV	**Managing and Sustaining Retail** a) Retail Store Operations: • Meaning, Responsibilities of Store Manager, The 5 S's of Retail Operations (Systems, Standards, Stock, Space, Staff) b) Store Design and Layout: • Store Design- Meaning, Objectives, Principles, Elements of Exterior and Interior Store Design, Store Atmospherics and Aesthetics • Store Layout- Meaning, Types: Grid, Racetrack, Free Form • Signage and Graphics: Meaning, Significance, Concept of Digital Signage • Feature Areas: Meaning, Types: Windows, Entrances, Freestanding Displays, End Caps, Promotional Aisles, Walls, Dressing Rooms, Cash Wraps c) Visual Merchandising and Display: • Visual Merchandising- Meaning, Significance, Tools Used for Visual Merchandising • The Concept of Planogram • Display- Meaning, Methods of Display, Errors in Creating Display d) Mall Management • Meaning and Components: Positioning, Zoning, Promotion and Marketing, Facility Management, Finance Management e) Legal and Ethical Aspects of Retailing • Licenses/Permissions Required to Start Retail Store in India • Ethical Issues in Retailing Career Options in Retailing	15
		60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. NEHA MAHESHWARI. DEPARTMENT: COMMERCE

CLASS: SYEME SEMESTER: III MONTH: JUNE-OCT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Research Methods in Business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	● Fundamentals of Research: - Meaning, Objectives and Significance. Types of Research: - Basic research, Applied, Descriptive, historical, Exploratory, Experimental, Ex-post-factor and Case study approach. ● Approaches to Research: - ● a. Quantitative approach: - i Inferential ii Experimental iii Simulation ● b. Qualitative approach: - i Ethnographic ii Phenomenological iii Field Research ● Importance of research in management decisions: - Various areas of research in business: a) Marketing Research b) Government policies and economic systems c) Social relationship d) Planning and operational problems of research in business	**8**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**

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Unit 2	● Research process: - Selecting the topic, defining the research problem, objectives of research, literature survey, sample design, data collection, execution of project, analysis of data and hypothesis testing, generalization and interpretation and preparation of research report. ● Features of good research ● Research design – Meaning, need, features of good research design, types of research design – a) For exploratory research b) For descriptive research b) For causal research studies	**7**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**
Unit 4	● Sources and Methods of data collection: - Primary and Secondary data. ● a) Primary sources: - i. Observation ii. Interview iii. Questionnaire iv. Interview schedules ● b) Secondary sources Data processing – Tabulation - Data analysis and Interpretation Report writing – layout of research report	**4**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 19

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashlesha Maurya DEPARTMENT: EME CLASS: TYEME SEMESTER: **VI** MONTH: JAN- APRIL

ACADEMIC YEAR:2022-23 SUBJECT : Disaster Management

LEARNING OBJECTIVES:

1) To Identify and explain major types of disasters and the appropriate mitigation strategies

2) To examine the importance of effective disaster preparedness, planning and operations in ensuring reduction in damage

3) To evaluate the different Medical and Psycho-Social Preparedness to disasters

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-1	Disaster – Introduction –Types of natural calamities,	05		Chalk and board
	major and minor calamities –			Chalk and board
	impact of calamities.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-2	Natural disaster – flood	05		Chalk and board
	cyclone – Tsunami			Chalk and board
	Landslides – earthquake			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-3	Man Made disaster – Wars	10		Chalk and board
	Biological war (introduction of pathogens) – misuse of atomic bombs –			Chalk and board
	major accidents from industries e.g. Bhopal. Love canal disaster – London Smog.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-4	Medical Management of disaster –	10		Chalk and board
	Disaster Impacts and response			Chalk and board
	Identification of dead – Search rescue –first and relief phase –			Chalk and board
	Vaccination, basic sanitation and personal hygiene.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-5	Environmental Disaster – Assessment, Planning – mitigation program – preparedness –	10		Chalk and board
	Resettlement rehabilitation – role of NGOS, Gos (relief camp),			Chalk and board
	Psychotherapy – simplified yoga and meditation, stress management.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __40______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Sivapriya Achari DEPARTMENT: Commerce CLASS: FYBFMG

SEMESTER: I MONTH: July - November ACADEMIC YEAR: 2022- 2023 SUBJECT: Business Communication

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills. The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills. To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Unit1. Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels : Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
Unit 2 - Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour			
Unit 3 : Business Correspondence	1)Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]	15	Manan Publication, Sheth Publication, Vipul Publication	Online

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Unit 4 : Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities 🖮 Listening Comprehension 🖮 Remedial Teaching 🖮 Speaking Skills: Presenting a News Item, Dialogue and Speeches 🖮 Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling. 🖮 Reading Comprehension: Analysis of texts from the fields of Commerce and Management	15	Manan Publication, Sheth Publication, Vipul Publication	Online

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PLEMIA REBELLO DEPARTMENT: FMG CLASS:TYFMG . SEMESTER: VI

SUBJECT : AUDITING MONTH: DECEMBER 2022 - FEBRUARY 2023 ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

To give knowledge to students about how to find reliability of financial position and profit and loss statements. The aim is to ensure that the accounts reveal a true and fair face of the business and all of its transactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1.**VOUCHING** Audit of Income Revenue from Sales and Services, Rental Income, Interest & Dividends Income, Royalties Income, Recovery of Bad debts written off, Commission Received 1.2 Audit of Expenditure Purchases, Salaries & Wages, Rent, Insurance Premium, Telephone expense , Petty cash payment, Advertisement, Travelling Salesmen's Commission, Freight Carriage and Custom Duties	15	SHETH , VIPUL,MANAN PRAKASHAN	PPT, CHALK AND BOARD
	2.**VERIFICATION** 2.1 Audit of assets Plant & Machinery, Furniture and fixtures, Accounts Receivable, Investments, Inventory, Goodwill, Patent Rights 2.2 Audit of Liabilities Outstanding Expenses, Accounts Payable, Secured loans, Unsecured Loans, Contingent Liabilities, Public	15		

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	Deposits			
	3. **Audit and Assurance Standards** 3.1 Significance of the Audit and Assurance Standards issued by Institute of Chartered Accountants of India. Responsibility of auditor for AAS 3.2 Understanding of following standards SA 200 Basic principles of Governing an Audit SA 200A Objective and scope of the audit of financial statements SA 230 Audit documentation SA 320 Audit materiality SA 570 Going Concern	15		
	4**. Audit of Limited Companies** 4.1 Qualifications, Disqualifications, Appointments (First & Subsequent auditor), Reappointment, Removal of auditors.	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT : 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Jagruti Naukudkar** DEPARTMENT: **SFC – BFMG**

CLASS: **SYBFMG Div A** SEMESTER: **: __III________** MONTH: **June To Sep** ACADEMIC YEAR: **2022 - 23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Knowledge based & Conceptual learning to get acquainted with objective type test
2) Revise the concepts of Partnership Final Accounts
3) Solve practical questions using concepts
4) Introduction to Accounting with computer.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Corporate Accounting	Unit 1 : Partnership Final Accounts	16	Manan Publication, Vipul Publication	Chalk Board, PPT
	1) Concepts - Admission, Retirement & Death 2) Treatment of Goodwill 3) Practical problems		Sheth Publication	
	Unit 2 : Accounting with Computers	16	Manan Publication, Vipul Publication	Chalk Board, PPT

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	1) Inventory vouchers- stock journal 2) Manufacturing Journal godown management, batch-wise management.		Sheth Publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____32______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ___Ms. RASHMI GURUNANI__ SUBJECT: MUTUAL FUND MANAGEMENT_____DEPARTMENT: COMMERCE

CLASS:SYBIMSEMESTER: III____ MONTH:JUNE, JULY____________ ACADEMIC YEAR:___2022-23______

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 INTRODUCTION TO MUTUAL FUND	History, Origin, Definition, Meaning of Mutual Fund	1	MUTUAL FUNDS by R.K.Mohapatra	• Chalk • Board • Discussion • Examples • Google classroom • YouTube videos
	Characteristics, Advantages, Disadvantages of Mutual Fund, Ethics	1		
	Entities involved – Sponsors, Trust, Trustee, AMC, Registrar &Transfer Agent and Fund Houses in India	4		
	Legal Framework, Role of Regulatory agencies – SEBI, RBI, AMFI, Ministry of Finance, SRO, Company Law Board, Registrar of Companies	3		
	Mutual Fund guidelines on advertisement, accounting, taxation, valuation norms, purchase mutual fund, investor protection	4		
	Mutual Fund regulation and grievances mechanism	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 1: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms RASHMI GURUNANI SUBJECT: MUTUAL FUND MANAGEMENT DEPARTMENT: COMMERCE

CLASS: SYBIM SEMESTER: III MONTH: AUGUST, SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 FINANCIAL PLANNING AND MUTUAL FUND	A) Basics of Financial Planning – Steps, Life Cycle, Wealth Cycle, risk profiling, asset allocation, contingencies funds	3	MUTUAL FUNDS by R.K.Mohapatra	• Chalk • Board • Discussion • Examples • Google classroom • YouTube videos
	B) Investor guides towards Financial planning – Eligibility for investment in mutual fund, KYC, Long bond fund, Short bond fund, Ultra Short bond fund, Need for financial advisors, colour coding mutual fund, difference between advisors and distributor, FD and mutual fund, dividend and growth option	6		
	C) Developing model portfolio for Investors – meaning, step by step approach of building model portfolio	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 4: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. SEEMA SIHANA______________________DEPARTMENT: SELF FINANCE___________

CLASS __S.Y.B.F.M SEMESTER: I___________MONTH: _AUGUST-NOVEMBER 2022 ACADEMIC YEAR: __2022-23_______

LEARNING OBJECTIVE/S:

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course–I (Money Market) Unit I, II, III,and IV	**Module I- Introduction to Money Markets** Meaning of money market, Features of money market, Importance of money market, Role of Primary dealers, Development of trade and industry, Development of capital market, Smooth functioning of commercial banks, Effective Central Bank Control, Formulation of suitable monetary policy, Source of finance to government.	5	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	Module II- Regulatory Framework of Money Markets	10	**Text book**	
	Regulatory framework of RBI, FIMMDA (Fixed Income, Money Market and Derivatives Association) and FEDAI (Foreign Exchange Dealers Association of India), NDS-OM Web.			1.Chalk and Black Board Method 2 Example 3 Discussion
	. **Module III- Money Market Instruments** **Conventional:- Treasury bills, Money at call and Short Notice in the Call Loan market, Commercial bills, Promissory notes in the bill market.**	10	Text book	1.Chalk and Black Board Method 2 Example 3 Discussion

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	Modern:- Commercial papers, Certificate of Deposit, Inter-bank Participation Certificates, Repo instrument, Banker's Acceptance. **Money Market Mutual Fund:- Meaning, advantages, disadvantages, Regulatory framework for money market mutual funds, various money market funds operational in Indian market.**			
	Module IV- Recent Developments in Money Market Integration of Unorganised sector with the Organised sector, Widening of call money market, Introduction of Innovative Instrument, Offering of market rates of interest, Promotion of bill culture, Entry of money market mutual funds, Setting up of credit rating agencies, Adoption of suitable monetary policy, Establishment of DFHI, Setting up of Security	10	Text book Internet The Indian constitution	1.Chalk and Black Board Method 2 Example 3 Discussion
		10	Text book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANGI V MEHTA DEPARTMENT: SFC CLASS: TY BIM SEMESTER: 5 MONTH: JUN-AUG

ACADEMIC YEAR: 2022-2023 SUBJECT: RESEARCH METHODOLOGY

LEARNING OBJECTIVES:

The learners will be able to : Imparting and adequate knowledge of the subject matter

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction to Research UNIT 2- Data Collection and Processing	Meaning objectives and importance of research- Types of research-research Process-Characteristics of good Research-Hypothesis-Meaning, nature, significane, types and sources-research design-meaning, defination, need and importance,steps, scope and essentials of a good research design-Sampling-meaning of sample and sampling- methods of sampling-non probability sampling-covenient, judgment, quota, snow ball-Probability-simple Random, stratified, cluster, multi stage. Types of data and sources- Primary and Secondary Data Sources-Methods of collection of Primary data-Observation-stuctured and unstructured-disguised and undisguised-mechnical observations-Exprimental- field -laboratory- interview-personal interview-focused group-in depth interviews method-Survey instrument-Questionnaire designing-types of questions-structured/close ended, unstructured/open ended, Dichotomous, Multiple choice Questions-Scaling techniques- Likert scale, semantic Differential scale.	30	Research Methodology by Vipul Publication	Chalk Board Flow Chart

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UNIT 4- Advanced Statistical Techniques	Introduction, characteristics and Application of- Correlation and Regression Analysis- Factor Anlysis- Cluster Analysis- Discriminant Analysis- Multidimensional Scaling			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: T.Y.B.Sc SEMESTER: V MONTH: NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To understand concepts related to the general principles of pharmacology.
The learners will be able to : Understand the general mechanisms of the drug action and effect in the human body.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 603 BASIC PHARMACOLOGY AND NEUROCHEMISTRY UNIT I GENERAL PRINCIPLES OF PHARMACOLOGY	Mechanism of drug action , drug receptors and biological responses	04	Modern Pharmacology with clinical Applications Craig,C.R, Stitzel,R.E 5th edition	CHALKBOARD METHOD, YOU TUBE VIDEOS
	second-messenger systems, the chemistry of drug–receptor binding, dose–response relationship: therapeutic index	05		
	ED, LD; Potency and Intrinsic Activity	04		
	Drug antagonism	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: TYBSC SEMESTER: VI

MONTH: January to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Gain an understanding of different types of vitamins
Gain an understanding of different types of minerals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT601 Biochemistry **UNIT IV** Nutrition	Dietary sources, bioactive form, functions and disorders associated with fat soluble (A D E K) and water soluble vitamins- 7 Lectures;	07	Biochemistry by satyanarayana and Chakrapani	Chalk Board Power point presentation & Topic related videos
	Minerals - physiological and biochemical functions of principal and trace elements.	07	Biochemistry by satyanarayana	Chalk Board

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			and Chakrapani	Power point presentation & Topic related videos
	Malnutrition – Over nutrition (obesity) and PEM (Kwashiorkor and Marasmus)	01	Biochemistry by satyanarayana and Chakrapani	Chalk Board Power point presentation & Topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Swati Chaudhari DEPARTMENT: Biotechnology

CLASS: T.Y.B.Sc SEMESTER: V

MONTH: August- October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Describe general properties of virus, classification schemes, cultivation systems and virus purification and assay.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 502 Medical Microbiology and Instrumentation Unit 1- Virology	Introduction to viruses-Position in biological spectrum; Virus properties -	2	Foundations In Microbiology by Talaro and Talaro Third edition W.C Brown. Understanding Viruses by Teri Shors II	Powerpoint Presentations Mind Maps Youtube Videos Teaching Aids
	General structure of viruses Baltimore Classification and Taxonomy(ICTV) -	2		
	Cultivation of viruses	2		
	Reproduction of ds DNA phages Hepatitis /ss RNA (influenza), animal viruses and plant (TMV)virus	4		
	Virus purification and assays	2		

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	Cytocidal infections and cell damage	2	Microbiology by Prescott Harley and Klein 5th edition Mc Graw Hill	
	Viroids and Prions	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: S.Y.B.Sc SEMESTER: IV MONTH: NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To have a firm foundation of the fundamentals and applications of current Chemical Theories for the Physical World.
The learners will be able to : Understand the different aspects of Analytical Chemistry.
Gain knowledge about various separation techniques.
Learn the benefits and limitations of different sampling strategies.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT402 APPLIED CHEMISTRY-II UNIT I SAMPLING AND SEPARATION TECHNIQUES	Sampling : Importance of Sampling and Sampling Techniques Types of Sampling - Random and Non-Random Sampling of Solids, Liquids and Gases.	06	Text Book of T.Y. B.Sc Analytical Chemistry Revised Syllabus	CHALKBOARD METHOD, YOU TUBE VIDEOS AND PRESENTATION
	Separation Techniques : Types of Separation Techniques - Filtration, Zone Refining, Distillation, Vacuum Distillation.	03	S.Y.B.Sc Analytical Chemistry Text Book-Sheth Publishers	
	Solvent Extraction - Partition Coefficient and Distribution Ratio, Extraction Efficiency, Separation Factor,	02		
	Role of Complexing Agents, Chelation, Ion Pair Formation, Solvation, and Soxhlation.	02		
	Centrifugation - Basic Principles of Sedimentation.	02	Fundamentals of Bioanalytical Techniques and Instrumentation - A. K.SRIVASTAVA	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Swati Chaudhari DEPARTMENT: Biotechnology

CLASS: S.Y.B.Sc SEMESTER: III

MONTH: September- December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Describe chemical and biological assay methods, Bioavailability and Bioequivalence concept.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III *In-vivo* and *Invitro* Assay of Industrial Products	Assay of Industrial Products: Chemical - Types and Subtypes; Kinetics. Advantages and Disadvantages.	6	Industrial Microbiology- A. H. Patel Industrial Microbiology- L. E. Casida- John Wiley & Sons	Power point Presentation Mind Map You Tube Videos Teaching Aids
	Biological; Types and Subtypes; Kinetics. Advantages and Disadvantages.	6		
	Bioavailability and Bioequivalence Studies	2		
	Half-Life Determination of Pharmacological Products.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: S.Y.B.Sc SEMESTER: III MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The objective of this course is to have a firm foundation of the fundamentals and applications of Organic and Green Chemistry.
The learners will be able to : Learn the role of Green Chemistry and its application in Industry.
Understand the different aspects of Green Chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 302 APPLIED CHEMISTRY-I UNIT III GREEN CHEMISTRY AND SYNTHESIS	Green Chemistry and Synthesis: Introduction to Green Chemistry;	02	College Organic Chemistry of T.Y. B.Sc Organic Synthesis - V. K. Ahluwalia	CHALKBOARD METHOD, TEACHING AIDS
	Need and Relevance of Green Chemistry;	02	SAME AS ABOVE	
	Principles of Green Chemistry	03	SAME AS ABOVE	
	Green Synthesis in Industry: Green Materials,Green Reagents, Green Solvents and Green Catalysts.	08	SAME AS ABOVE	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To acquaint students Knowledge of Redox reaction.
The learners will be able to : Understand the relationship between oxidation and reduction.

Learn to assign oxidation numbers to different elements and compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 202 PHYSICAL CHEMISTRY UNIT III OXIDATION REDUCTION REACTIONS	Principles of Oxidation & Reduction Reactions Oxidising and Reducing Agents, Oxidation Number	02	XI STD MAH.STATE BOARD TEXT BOOK	CHALK BOARD, PRESENTATION AND TEACHING AIDS
	Rules to assign Oxidation Numbers with examples Ions like Oxalate, Permanganate and Dichromate	06		
	Balancing Redox Reactions by Ion Electron Method	05		
	Oxidation, Reduction, Addition and Substitution and Elimination Reactions.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To acquaint the students with some core aspects of physical chemistry
The learners will be able to : Learn the concept of thermodynamics and problems related to it.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 203 Basic Chemistry-II UNIT 1 - Thermodynamics	**Thermodynamics:** System, Surrounding, Boundaries Sign Conventions, State Functions, Internal Energy and Enthalpy: Significance, examples, (Numericals expected.)	05	NCERT 12th Chemistry Textbook	CHALKBOARD METHOD, TEACHING AIDS
	Laws of Thermodynamics and its Limitations: Mathematical expression. Qualitative discussion of Carnot Cycle for ideal Gas and Mechanical Efficiency. Laws of Thermodynamics as applied to Biochemical Systems.	06		
	Concept of Entropy, Entropy for Isobaric, Isochoric and Isothermal Processes.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:II

MONTH: January to April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Explain the role of body systems and mechanisms in maintaining homeostasis

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 203 Physiology and immunology Unit II Animal Physiology	Introduction to physiology: Concept of homeostasis. Body fluids: Major types of Body fluid. Blood: Functions of blood, general properties of blood, Composition of blood. Thrombocytes or Platelets. Coagulation of blood. Theories of Coagulation.	05	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos

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	Haemolysis. Respiratory system: Phases of Respiration, Principle of gases exchange, Mechanism of breathing.			
	Digestion and absorption: Mode of nutrition, Digestion: Digestion of foodstuffs, Digestion in humans. Absorption.	06	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos
	Excretion: Organs of excretion. Types of excretory products. Excretion in vertebrates - Human Kidney: Structure of kidney, Structure of nephron. Function of kidney. Urine formation. Dialysis	04	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:I

MONTH: October to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Identify various physical and chemical agents of controlling microorganisms

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 104 Basic Life Sciences-II: Microbial Techniques Unit II Sterilization Techniques	Definition: Sterilization and Disinfection. Types and Applications Dry Heat, Steam under pressure, Gases, Radiation and Filteration	04	Microbiology by Pelczar, Chan & Krieg 5th E	Power point presentation and topic related videos
	Chemical Agents and their Mode of Action - Aldehydes, Halogens, Quaternary Ammonium Compounds, Phenol and Phenolic Compounds, Heavy Metals, Alcohol, Dyes, and Detergents	04	Microbiology by Pelczar, Chan & Krieg 5th E	Power point presentation and topic related videos
	Ideal Disinfectant. Examples of Disinfectants and Evaluation of Disinfectant	02	Fundamentals of Microbiology by Frobisher 9th Ed	Power point presentation and topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: 1. Differentiate chiral and achiral molecules. Recognize and draw structural isomers (constitutional isomers), stereoisomers.
2. Identify the stereocenters in a molecule and assign the configuration as R or S.
3. Know the relationship between enantiomers and their specific rotations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III-Stereochemistry	**Isomerism:** Types of Isomerism: Constitutional Isomerism (Chain, Position and Functional) and Stereoisomerism, Chirality.	06	F.Y.B.Sc Organic Chemistry, Himalaya Publication	CHALKBOARD METHOD, TEACHING AIDS
	Geometric Isomerism and Optical Isomerism: Enantiomers, Diastereomers, and Racemic mixtures Cis-Trans, Threo, Erythro and Meso isomers. Diastereomers (Cis-Trans Isomerism) in Alkenes and Cycloalkanes (3 and 4 membered ring)	05		
	Conformation: Conformations of Ethane. Difference between Configuration and Conformation. **Configuration:** Asymmetric Carbon Atom, Stereogenic/ Chiral Centers, Chirality Representation of Configuration by —Flying Wedge Formula	03		
	Projection formulae: Fischer, Newman and Sawhorse. The Interconversion of the Formulae.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Predict the names of common ionic compounds and simple molecular compounds from their formulas.
To understand the difference between valence band theory and molecular orbital theory.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I- Nomenclature and Chemical bonds	Classification and Systematic Nomenclature of organic compounds (few examples)	04	NCERT 12th Chemistry Textbook	CHALKBOARD METHOD, TEACHING AIDS
	Chemical Bonds: Types and transition between the main types of bonding. **Ionic Bond:** Nature of Ionic Bond, factors influencing the formation of Ionic Bond. Structure of NaCl and CsCl.	05		
	Covalent Bond: Nature of Covalent Bond, Types of covalent bond (Polar and Coordinate covalent bonds). Structure of CH4, NH3, H2O, Shapes of BeCl2, BF3.	03		
	Hydrogen Bond: Theory of Hydrogen Bonding and Types of Hydrogen Bonding (with examples of RCOOH, ROH, Salicylaldehyde, Amides and Polyamides).	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: T.Y.B.Sc SEMESTER: V MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: 1. Students will be able to list the routes of exposure for a pathogen to a human being.
2. Students will be able to demonstrate and assess the proper use of PPE, best practices, biological containment, and be prepared to safely conduct research.
3. Students will be able to identify the role of the Biosafety Professional in Biomedical Research Laboratories

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied component UNIT-I Introduction to biosafety	Introduction; Biological Risk Assessment, Hazardous Characteristics of an Agent; Genetically modified agent hazards	04	Biosafety in Microbiological and Biomedical Laboratories - 5th Edition, L. Casey Chosewood Deborah E. Wilson U.S. Department of Health and Human Services Centers for Disease Control and Prevention National Institutes of Health.	CHALKBOARD METHOD, TEACHING AIDS
	Cell cultures; Hazardous Characteristics of Laboratory Procedures; Potential Hazards Associated with Work Practices	04		
	Safety Equipment and Facility Safeguards	02		
	Pathogenic risk and management	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: SYBSC SEMESTER: IV

MONTH: January to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to describe cultural, morphological, biochemical properties and pathogenesis of GI tract infection causing pathogens and Nosocomial infection causing Psudomonas.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 403 **Medical Microbiology** Unit III **Causative Organisms- III**	**GI Tract Infections :** *Salmonella And Shigella Spps. (*Characteristics, Virulence-Pathogenesis And Immunity,Clinical Disease, Carriers Lab Diagnosis,Phage Typing Prophylaxis And Treatment).	10	Text book of Medical Microbiology, Anantnarayan	Chalk Board
	Sexually Transmitted Diseases : Syphilis And Gonorrhoea.	3		

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	Nosocomial Infections : *Ps. Aeruginosa*	2		Powerpoint presentation & Topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:I

MONTH:August to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Identify Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks

Develop an understanding of communication skills required to excel in real work environment and corporate life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT107 Unit I Academic skills	Essentials of Grammar: Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks	03	Kumar, Sanjay, and Lata, Pushp. Communication Skills, Second Edition. India, Oxford University Press, 2015.	Lecturing, worksheets

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Mrunal A. Darjee. DEPARTMENT:Physics CLASS: _F. Y. B. Sc. ___ SEMESTER: I MONTH: August-Nov. ACADEMIC YEAR: 2022-23

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-1 Overview of Indian Society	Understand the multi-cultural diversity of Indian society through its demographic composition: population distribution according to religion, caste, and gender; Appreciate the concept of linguistic diversity in relation to the Indian situation; Understand regional variations according to rural, urban and tribal characteristics; Understanding the concept of diversity as difference.	05	Manan prakashan	Chalk & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _05

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-II Concept of Disparity- 1:	Understand the concept of disparity as arising out of stratification and inequality; Explore the disparities arising out of gender with special reference to violence against women, female foeticide (declining sex ratio), and portrayal of women in media; Appreciate the inequalities faced by people with disabilities and understand the issues of people with physical and mental disabilities.	10	Manan prakashan	Chalk & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-III Concept of Disparity- 2	Examine inequalities manifested due to the caste system and inter-group conflicts arising thereof; Understand inter-group conflicts arising out of communalism; Examine the causes and effects of conflicts arising out of regionalism and linguistic differences.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-IV The Indian Constitution:	The Indian Constitution: Philosophy of the Constitution as set out in the Preamble;The structure of the Constitution-the Preamble, Main Body and Schedules;Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-V Signigicant aspects of Political Parties	The party system in Indian politics; Local self-government in urban and rural areas; the 73rd and 74th Amendments and their implications for inclusive politics;Role and significance of women in politics. .	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -1 U-VI Growing Social Problems in India	a) Substance abuse- impact on youth & challenges for the future b) HIV/AIDS- awareness, prevention, treatment and services c) Problems of the elderly- causes, implications and response d) Issue of child labour- magnitude, causes, effects	15	Manan prakashan	Chack & board Method

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	and response e) Child abuse- effects and ways to prevent f) Trafficking of women- causes, effects and response			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15

NAME OF THE STAFF: Ms. Mrunal A. Darjee. DEPARTMENT:Physics CLASS: _F. Y. B. Sc. ___ SEMESTER: II MONTH: August-Nov.

ACADEMIC YEAR: 2022-23

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-I Globalisation and Indian Society:	(Understanding the concepts of liberalization, privatization and globalization; Growth of information technology and communication and its impact manifested in everyday life; Impact of globalization on industry: changes in employment and increasing migration; Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	07	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _07

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-II Human Rights	Concept of Human Rights; origin and evolution of the concept; The Universal Declaration of Human Rights;Human Rights constituents with special reference to Fundamental Rights stated in the Constitution;.	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-III Ecology	Importance of Environment Studies in the current developmental context; Understanding concepts of Environment, Ecology and their interconnectedness; Environment as natural capital and connection to quality of human life; Environmental Degradation- causes and impact on human life; Sustainable development- concept and components; poverty and environment	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-IV Understanding Stress and Conflict	Causes of Stress and Conflict in Individuals and Society, Agents of Socialization And the role played by them in Developing the individual, Significance of Values,Ethics and Prejudices in Developing the individual, Stereotyping and prejudices as the significant factors in Causing Conflicts in Society, Aggression and violence as the Public Expression Conflicts	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-V Managing stress and Conflict in Contemporary Society	Types of Conflicts and use of Coping Mechanisms for managing Individual Stress, Maslow's Theory of Self-Actualization,Different Methods of Responding to Conflicts in Society , Conflicts -Resolution and Efforts towards building peace and Harmony in Society	10	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
F C -2 U-VI Contemporary Societal Challenges	Increasing Urbanization,Housing, Health and Sanitation, Changing Values and Lifestyles. Impact of mass media on Culture,Farmer's Suicides and Agrarian Distress, Debate regarding genetically modified crop, Development projects and human rights violation, dam and impact on Human rights, Nuclear power projects and impact on human rights, thermo electric projects and impact on human rights, Crime among Youths, Suicide Among Youths	13	Manan prakashan	Chack & board Method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **T.Y.B.Sc.**

SEMESTER: **V** MONTH: **- June - September** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Apply theory of quantum physics in atomic physics.
- Understand importance of electron spins, symmetric & antisymmetric wave functions & vector atom model.
- Learn the Effect of magnetic field on atoms & its application.
- Learn molecular physics & its application.
- This course will be useful to get an insight into spectroscopy.
- Get the insight of the modern medical instruments in principle, which are used in day to day life.
- From this course, the students are expected to learn some mathematical techniques required to understand the physical phenomena at the undergraduate level and get exposure to important ideas of statistical mechanics.
- The units on statistical mechanics would introduce the students to the concept of microstates, Boltzmann distribution and statistical origins of entropy.
- It is also expected that the student will understand the difference between different statistics, classical as well as quantum.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-III, Unit -3 Atomic &	1. Molecular spectra (Diatomic Molecules): Rotational energy levels, Rotational spectra, Vibrational energy levels, Vibrational-Rotational spectra. Electronic	15	B: Perspectives of Modern Physics: Arthur	chalk and Board

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molecular Physics	Spectra of Diatomic molecules: The Born-Oppenheimer approximation, Intensity of vibrational-electronic spectra: The Franck-Condon principle. 2. Infrared spectrometer & Microwave spectrometer		Beiser Page 8 of 18 McGraw Hill.	
Paper-III, Unit -4 Atomic & molecular Physics	1. Raman Effect: Quantum Theory of Raman Effect, Pure Rotational Raman spectra: Linear molecules, symmetric top molecules, Asymmetric top molecules, Vibrational Raman spectra: Raman activity of vibrations, Experimental set up of Raman Effect. 2. Electron spin resonance: Introduction, Principle of ESR, ESR spectrometer. 3. Nuclear magnetic resonance: Introduction, principle and NMR instrumentation.	15	BM: Fundamentals of Molecular Spectroscopy: C. N. Banwell & E. M. McCash (TMH).(4th Ed.) . GA: Molecular structure and spectroscopy : G Aruldhas (2nd Ed) PHI learning Pvt Ltd.	chalk and Board
Paper-I, Unit -3 Mathematical, Thermal and Statistical Physics	1. Microstates and configurations, derivation of Boltzmann distribution, dominance of Boltzmann distribution, physical meaning of the Boltzmann distribution law. 2. Definition of the canonical ensemble, relating Q to q for an ideal gas. 3. Translational partition function, equipartition theorem, energy, entropy.	15	Thermodynamics, Statistical Thermodynamics and Kinetics: T. Engel and P. Reid (Pearson).	chalk and Board
Paper-I, Unit - 4 Mathematical, Thermal and Statistical Physics	1. The probability of a distribution, The most probable distribution, Maxwell Boltzmann statistics, Molecular speeds. 2. Bose-Einstein statistics, Black-body radiation, The Rayleigh-Jeans formula. 3. The Planck radiation formula, Fermi-Dirac statistics,	15	Perspectives of Modern Physics: Arthur Beiser, (Mc Graw Hill International).	chalk and Board

	Comparison of results.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **S.Y.B.Sc.**

SEMESTER: **III** MONTH: **June-September** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Comprehend the basic concepts of thermodynamics & its applications in physical situation.
- Learn about situations in low temperature.
- Demonstrate tentative problem solving skills in all above areas.
- Students will be exposed to contextual real life situations.
- Students will appreciate the role of Physics in 'interdisciplinary areas related to Acoustics.
- The learner will understand the scope of the subject in Industry & Research.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-3 Applied Physics – I Unit-3	1) Electrical properties: Review of energy band diagram for materials – conductors, semiconductors and insulators, Electrical conductivity in metals,	15	Electronic Properties of Materials, Rolf E Hummel.	chalk and Board

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Properties of Material	semiconductors and insulators (dielectrics), effect of temperature on conductivity. 2) Optical properties: Reflection, refraction, absorption and transmission of electromagnetic radiation in solids. 3) Magnetic properties: Origin of magnetism in solids (basic idea), Types of magnetic order (paramagnetism, diamagnetism, antiferromagnetism, ferromagnetism, ferrimagnetism),magnetic hysteresis. 4) Applications: Dielectric materials: Piezoelectric, ferroelectric and pyroelectric materials.		Materials Science and Engineering: A First Course by V.Raghavan.	
Paper-3 Applied Physics – I Unit-1 Acoustics , Lasers and fibre optics	1. Acoustics of Buildings: Reverberation, Sabine's formula (without derivation) Absorption coefficient, Acoustics of Buildings, factors affecting Acoustics of Buildings, Sound distribution in an auditorium. 2. Laser : Introduction, transition between Atomic energy states (without derivation), Principle of Laser, Properties of Laser, Helium–Neon Laser, Application of Laser, Holography 3. Fibre Optics: Light propagation through Fibres, Fibre Geometry, Internal reflection, Numerical Aperture, Step-Index and Graded-Index Fibres, Applications of Fibres.	15	Modern Physics Concept and Applications – SanjeevPuri, Narosa Publication. Properties of matter and Acoustics – R Murugeshan and K. Shivaprasath, S Chand	chalk and Board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MISS.NIYANTA DAVE** DEPARTMENT: **PHYSICS** CLASS: **F.Y.B.Sc.**

SEMESTER: **I** MONTH: **July- October** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the concepts of lens system and interference.
- Demonstrate quantitative problem solving skills in all the topics covered

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper-1 Unit-2 Classical Physics	1.	15		chalk and Board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: F. Y. B. Sc. SEMESTER: I MONTH: OCT-DEC

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:
The learners will be able to :

1. Understand nuclear size, nuclear properties and nuclear behavior.

2. Understand the type isotopes and their applications.

3. Numericals problem solving skills in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-I, Modern Physics	1.Structure of Nuclei:Basic properties of nuclei, Composition, Charge, Size, Rutherford's expt. for estimation of nuclear size, density of nucleus, Mass defect and Binding energy, Packing fraction, BE/A vs A plot, stability of nuclei (N Vs Z plot) and problems.	06	1.Sheth Publications, 2.SBP: Dr. S. B. Patel, Nuclear Physics Reprint 2009, New Age International	Lecture Method/ chalk & board
	2.Radioactivity: Radioactive disintegration concept of natural and artificial radioactivity, Properties of α, β, γ-rays, laws of radioactive decay, half-life, mean life (derivation not required), units of radioactivity, successive disintegration and equilibriums, radioisotopes. Numerical Problems.	07		

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	3.Carbon dating and other applications of radioactive isotopes (Agricultural, Medical, Industrial, Archaeological -information from net).	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: F. Y. B. Sc. SEMESTER: II MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1.Understand the basic concepts of digital electronics , power supply, Circuit Theorem and their applications.

2. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Electricity & Electronics	1.Circuit theorems: (Review: ohm's law, Kirchhoff's laws) Superposition Theorem, Thevenin's Theorem, Ideal Current Sources, Norton's Theorem, Reciprocity Theorem, Maximum Power Transfer Theorem. Numericals related to circuit analysis using the above theorems.	06	1.Sheth Publications. 2.VKM: V K Mehta and R Mehta Electronics Principals, MulticolouredRevised 11th Ed. reprint in 2012 ,S Chand. 3.A P Malvino, Digital Principles and Applications: Tata	Lecture Method / chalk & Black board
	2.DC power supply: Half wave rectifier , Full wave rectifier, Bridge rectifier, PIV and Ripple factor of full wave rectifier, Clipper and Clampers, Capacitor Filter. Zener diode as voltage stabilizer.	05		
	3.Digital electronics : Logic gates(Review), NAND and NOR as universal building blocks. EXOR gate: logic expression,	04		

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	logic symbol, truth table, Implementation using basic gates and its applications, Boolean algebra, Boolean theorems. De-Morgan theorems, Half adder and Full adder			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S.Y. B. Sc. SEMESTER: III MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1.Understand the basics of transistor biasing, operational amplifiers, their applications.

2.Demonstrate quantitative problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Analog Electronics	1.Transistor Biasing: Inherent Variations of Transistor Parameters, Stabilisation, Essentials of a Transistor Biasing Circuit, Stability Factor, Methods of Transistor Biasing, Base Resistor Method, Emitter Bias Circuit, Circuit analysis of Emitter Bias, Biasing with Collector Feedback Resistor, Voltage Divider Bias Method, Stability factor for Potential Divider Bias.	07	1.Sheth Publications, 2.Principles of Electronics – V. K. Mehta and Rohit Mehta. (S. Chand– Multicoloured illustrative	Lecture Method / chalk & Black board
	2.General amplifier characteristics: Concept of amplification, amplifier notations, current gain, Voltage gain, power gain, input resistance, output resistance, general theory of feedback, reasons for negative feedback, loop gain.	06		
	3.Practical circuit of transistor amplifier, phase reversal, frequency response, Decibel gain and Band width.	02		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _15___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: T.Y. B. Sc. SEMESTER: V MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1. Understand the working of Data acquisition system, D to A and A to D Converters.

2. Understand the basic concept of Electron Spin and Spin orbit coupling etc.

3. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-V, U-III, Electronics Instrumentation (Applied Physics)	1. Data acquisition systems: Objectives of DAS, Singal conditioning of inputs, Single channel Data acquisition systems, Multichannel Data acquisition system.	06	1. Sheth Publications 2. Digital Principles and Applications : A. P. Malvino and D. P. Leach. Tata M	Lecture Method/ chalk and board
	2. D to A Converters: Resistive divider network, Binary ladder network.	04		
	3. A to D Converters: Successive approximation type, Voltage to time (Single slope, Dual slope).	04		

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P-III, U-II, Atomic Physics	1. Electron Spin: The Stern-Gerlach experiment, Pauli's Exclusion Principle, Symmetric and Antisymmetric wave functions.	07	1.Sheth Publications, 2.1. AB : Perspectives of Modern Physics : Arthur	Lecture Method/ chalk and board
	2. Spin orbit coupling, Hund's Rule, Total angular momentum, Vector atom model,L-S and j-j coupling. Origin of spectral lines, Selection rules.	08		

P-V, U-II, Electronics Instrumenta tion (Applied Physics)	1.Half wave precision rectifier, Active peak detector ,active positive clamper , 2.Active positive and negative clippers	03	1. Sheth Publications 2. Digital Principles and Applications : A. P. Malvino and D. P. Leach. Tata M	Lecture Method/ chalk and board
	2.Characteristics, types ,carbon microphones and dynamic type microphone (Principle ,construction & working).Characteristics,Dynamic speaker ,multi -way speaker system .5.basic monolithic switching regulators (Buck ,Boost & Buck-boost)	07		
	3. C.R.O. (Block diagram), Front Panels, Dual Trace Mode, Probes and half digit, resolution and sensitivity, general specification	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS. CLASS: T. Y. B. Sc. SEMESTER: VI MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1. Understand the working of DC power supply, Differential amplifier and Multivibrators circuit.

2. Understand the basic concepts of 555 Timer and OP-AMP Applications.

3. Numericals problem solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, Electronics	1. Regulated DC power supply: Supply characteristics, series voltage regulator,Short circuit protection (current limit and fold back) Monolithic linear IC voltage Regulators. (LM 78XX, LM 79XX, LM 317).	07	1.Sheth Publications, 2. 1. MB : Electronic Principles : A. P. Malvino and D.J. Bates, (7th Ed.) – (TMH). 3. VKM : Principles of Electronics : V. K. Mehta and	Lecture Method/ chalk and board
	2. Differential Amplifier using transistor: The Differential Amplifier, DC and ACanalysis of a differential amplifier, Input characteristic-effect of input bias, offset current and input offset voltage on output, common mode gain, CMRR.	05		
	3. Transistor Multivibrators: Astable, Monostable and Bistable Multivibrators,Schmitt trigger.	03		

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			Rohit Mehta. S. Chand Publications. (11th	
P-II, U-III, Electronics	1. Op Amp Applications: Log amplifier, Instrumentation amplifiers, Voltage controlled current sources (grounded load), First order Active filters, Astableusing OP AMP, square wave and triangular wave generator using OP AMP,Wein-bridge oscillator using OP AMP.	09	1. Sheth Publications 2. 1. MB : Electronic Principles : A. P. Malvino and D.J. Bates, (7th Ed.) – (TMH).	Lecture Method/ chalk and board
	2. 555 Timer: Review Block diagram, Monostable and Astable operationVoltage Controlled Oscillator, Pulse Width modulator, Triggered linear ramp generator.	O6		

Paper -V (E-II) Unit-II, Advanced 8085 Programming & 8255 (PPI)	1. Introduction to advanced instructions & applications Stack & subroutine	09	1. Sheth Publications 2. Ramesh Gaonkar	Lecture Method/ chalk and board
	2. The 8255 programmable peripheral interface: block diagram of 8255 ,mode 0-simple input/output mode ,BSR mode.	O6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _45_

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S.Y. B. Sc. SEMESTER: III MONTH: SEPT-DEC

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:

The learners will be able to :

1. Develop a basic understanding about issues related to Human Rights of weaker sections and Dealing with Environmental Concerns.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course, Module-I, Humans Rights Provisions, Violations and Redressal	A. Scheduled Castes- Constitutional and legal rights, Forms of violations, Redressal mechanisms. B. Scheduled tribes- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Women- Constitutional and legal rights, Forms of violations, Redressal mechanisms. D. Children- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04		
	E. People with Disabilities, Minorities, and the Elderly population- Constitutional and legal rights, Forms of violations, Redressal mechanisms.	04		
Foundation Course, Module-II,	A. Concept of Disaster and general effects of Disasters on human life- physical, psychological, economic and social effects. B. Some locally relevant case studies of environmental disasters.	05	1. Foundation course - II: Mannan	Lecture Method/ chalk and board

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Dealing with Environmental Concerns	C. Dealing with Disasters - Factors to be considered in Prevention, Mitigation (Relief and Rehabilitation) and disaster Preparedness. D. Human Rights issues in addressing disasters- issues related to compensation, equitable and fair distribution of relief and humanitarian approach to resettlement and rehabilitation.	06	Prakashan.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _23

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR.UMESH PRAJAPATI DEPARTMENT: PHYSICS CLASS: S. Y. B. Sc. SEMESTER: IV MONTH: JAN-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to :

1.Develop a basic understanding about issues related to Human Rights of weaker sections and ecology.

2. Appreciate the importance of developing a scientific temper towards technology and its use

in everyday life

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course, Module-I, Significant, contemporary Rights of Citizens	A. Rights of Consumers-Violations of consumer rights and important provisions of the Consumer Protection Act, 2016; Other important laws to protect consumers; Consumer courts and consumer movements. B. Right to Information- Genesis and relation with transparency and accountability; important provisions of the Right to Information Act, 2005; some success stories.	06	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Protection of Citizens'/Public Interest-Public Interest Litigation, need and procedure tofile a PIL; some landmark cases.	03		

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	D. Citizens' Charters, Public Service Guarantee Acts.	03		
Foundation Course, Module-II, Approaches to understanding Ecology	A. Understanding approaches to ecology- Anthropocentrism, Biocentrism and Eco centrism, Ecofeminism and Deep Ecology. B. Environmental Principles-1: the sustainability principle; the polluter pays principle, the precautionary principle.	07	1. Foundation course - II: Mannan Prakashan.	Lecture Method/ chalk and board
	C. Environmental Principles-2: the equity principle; human rights principles; the participation principle.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _23

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Anushita A. Moger DEPARTMENT:Physics CLASS:FYBSc SEMESTER:1

MONTH: July-September ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) understand nuclear properties and nuclear behavior.

2)demonstrate quantitative problem-solving skill in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Phy-2(unit-2) Nuclear physics	Chp-1 Interaction between particles and matter, I.P.counter and GM counter.	07		Chalk & duster method & google classroom
	Chp-2 Types of reaction and conservation laws, concept of compound and direct reaction, problems based on nuclear fusion and fission.	08		Chalk & duster method & google classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAME: Anushita A. Moger. DEPARTMENT: Physics CLASS: S.Y.B.Sc. SEMESTER:3

MONTH: June-September. ACADEMICYEAR:2022-23

LEARNINGOBJECTIVE/S:
The learners will be able to:

1) understand basic concept of oscillator and be able to perform calculations using them.

2)to demonstrate quantitative problem solving skills in all the topics covered.

PAPER, UNIT, TITLE	SUBTOPICS	NOOFLECTURES ALLOTED	REFERENCE/S	TEACHINGMETHOD/ICTTOOLSUSED
Phy-2(unit-3)Applied electronics	Chp-1.Oscillators, requirements for Oscillations,phase shift oscillator,wein bridge oscillator,colpitts oscillator and Hartley oscillator	07		Chalk & duster method & google classroom
	Chp-2Opamp-introduction and schematic symbol and ac analysis ,bandwidth of an opamp ,slew rate , frequency response and negative feedback of an opamp, inverting and non inverting amplifier,voltage follower ,summing amplifier and it's applications, integrator and differentiator	08		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper -II (Physics –I vector calculus ,analog electronics), Unit-I	1.line ,surface & volume integral, the fundamental theorem of calculus ,the fundamental theorem of gradient ,the fundamental theorem of curl, fundamental theorem of divergence	05	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture &chalk method
	Problems of chapter-I	05	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method
	2.Cylindrical & spherical coordinates & problems	04	Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method
			Sheth Publication S.Y.B.Sc. Phy-II Textbook	Lecture & chalk method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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NAMEOFTHESTAFF: Anushita A. Moger. DEPARTMENT: Physics CLASS: T.Y.B.Sc. SEMESTER:5

MONTH: June-September ACADEMICYEAR:2020-21

LEARNING OBJECTIVE/S:
The learners will be able to:

1)understand the laws of electrodynamics & be able to perform calculations using them.

2)Understand Maxwell’s electrodynamics & Its relation to relativity.

3)Understand how optical laws can be derived from electromagnetic principles.

4)Develop quantitative problem-solving skills.

PAPER, UNIT,TITLE	SUBTOPICS	NOOFLECTURES ALLOTED	REFERENCE/S	TEACHINGMETHOD/ICTTOOLSUSED
Phy-4.(unit -3) electrodynamics	Magnetism and varying fields-diamagnet,paramagnet and ferromagnetism, magnetisation,bound currents and their physical interpretation,ampere's law in magnetised material,deceptive equation in matter and boundary conditions, electrodynamics before Maxwell,Maxwell's correction to ampere's law,Maxwell equation in matter and it's boundary conditions and magnetic charge	15		Chalk & duster method & google classroom
Phy-4(unit-4) electrodynamics				

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	Electromagnetic waves, continuity equation,poynting theorem,Newton's third law,wave equation for electric and magnetic fields, monochromatic plane waves, energy and momentum in electromagnetic waves, propagation in linear media,reflection and transmission of electromagnetic waves at normal incidence.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-IV, U-I, Electrodynamics	1. Electrostatics: Field lines,flux and Gauss law,The divergence of E,application of Gauss law,The curl of E.	07	1. David J. Griffiths; Introduction to Electrodynamics	Lecture Method /Chalk & Board
	2.Poisson’s equation and Laplace equation,The potential of localized charge distribution,first uniqueness theorem.	03		
	3. The classic image problem,Infinite conducting plane.	05		

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A. Moger. DEPARTMENT: Physics CLASS:FYBSc SEMESTER:2

MONTH: December-February ACADEMICYEAR:2022-23

LEARNINGOBJECTIVE/S:

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The learners will be able to:

1)the basic mathematical concept and applications of them in physical situation.

2)demonstrate quantitative problem solving skills in all the topics covered.

PAPER, UNIT,TITLE	**SUBTOPICS**	**NOOFLECTURES ALLOTED**	**REFERENCE/S**	**TEACHINGMETHOD/ICTTOOLSUSED**
Phy-1(unit-1) electrodynamics	Chp-1 vectors,scalars,vector algebra and it's laws,scalar and vector field and problems based on them,cross product,dot product, commutative and distributive laws,scalar and vector triple products.	07		Chalk & duster method & google classroom
	Chp-2 Gradient, curl and divergence,their significance, distributive laws for all the three terms,problems based on them.	08		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A.Moger. DEPARTMENT: Physics CLASS: S.Y.B.Sc. SEMESTER:4

MONTH: November-February ACADEMICYEAR:2022-23

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LEARNING OBJECTIVE/S:
The learners will be able to:

1) understand the postulates of quantum mechanics and to understand its importance in explaining significant phenomena in physics.

2)todemonstratequantitativeproblemsolvingskillsinallthetopicscovered.

PAPER, UNIT,TITLE	**SUBTOPICS**	**NOOFLECTURES ALLOTED**	**REFERENCE/S**	**TEACHINGMETHOD/ICTTOOLSUSED**
Phy-2(unit-1) quantum mechanics	Schrodinger's wave equation,concept of wave function ,Born interpretation of wave function, position, momentum and energy operators,eigen value equation , expectation value of operators, postulates of quantum mechanics,analogy between wave and Schrodinger's equation,STDE and STIE ,superposition principle, probability current density ,equation of continuity and it's physical interpretation.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

NAME OF THE STAFF: Anushita A. Moger. DEPARTMENT:Physics CLASS: T.Y.B.Sc. SEMESTER:6

MONTH: November-February ACADEMICYEAR:2022-23

LEARNING OBJECTIVE/S:
1)understand the significance of Michelson Morley experiment and failure of the existing theories to explain the null result.

2)the importance postulates of special relativity, Lorenz transformation equations and how it changed the way we look at space and time

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, Absolute time and relativity, Commonsense versus Einstein concept of Space and time.

3)Understand the transformation equations for: Space and time, velocity, frequency, mass, momentum ,force ,Energy, Charge and current density, electric and magnetic fields.

PAPER, UNIT,TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ICT TOOLS USED
Phy 4(unit-1) relativity	Special theory of relativistic kinematics,experimental background of special theory of relativity,Galilean transformation,Newtonian relativity, electromagnetism and Newtonian relativity, attempt to locate absolute frame, Michelson Morley experiment, attempt to preserve the concept of a ether frame,lorentz Fitzgerald contractions and ether drag hypothesis, attempt to modify electrodynamics,postulates of special theory of relativity.	15		Chalk & duster method & google classroom

TOTALNUMBEROFLECTURESALLOCATEDTOTHEUNIT:15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : To acquire information about the different concepts of nutrition like BMR, BMI and SDA. It also describes detailed information about the nutritional significance of the macro and the macromolecules of a balanced diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT 3 NUTRITION	Definitions- calorie, joule, food calorimetry, calorific value, proximate principles, BMI and BV.	2	Joshi, Shubhangani- nutrition and dietetics Srilakshmi B- Nutrition Science Biochemistry by satyanarayan	White board method
	BMR	2		White board method
	SDA/DIT	1		White board method
	Nutritional significance of carbohydrates, proteins, lipids, vitamins, minerals, fibre and water.	6		White board method
	Balanced diet and numerical problems	2		White board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:
- To learn about nucleic acid structure and it's components in detail.
- To understand evidence and properties of nucleic acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II Nucleic Acids	2.1 Structure - Purine & Pyrimidine bases, ribose, deoxyribose, nucleosides and nucleotides (ATP, CTP, GTP, TTP, UTP) Formation of polynucleotide strand with its shorthand Representation	04	Lehninger, Albert L, Biochemistry, Ka Publishers ● Nelson, D. L. and Cox, M.M, (2008). Lehninger, Principles of Biochemistry 5th Edition, W. H. Freeman and Company, NY., USA.	● Students were explained via an interactive session. ● Structures of nucleic acids were shown.
	2.2 RNAs (various types in prokaryotes and eukaryotes) mRNA & r RNA - general account, t RNA - clover leaf model, Ribozymes	04		● Structures of types RNAs were explained via diagrams.
	2.3 DNA 2.3.1 Physical evidence of DNA helical structure. Chargaff's rules (chemical evidence), Watson-Crick model of DNA & its features 2.3.2 Physical properties of DNA - Effect of heat on physical properties of DNA (Viscosity, buoyant density, UV absorption), Hypochromism, hyperchromism, denaturation	07 Total: 15		● Students were explained about the evidences and properties by drawing structures and reactions.

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	of DNA. 2.3.3 Reactions of nucleic acids (with DPA and Orcinol)			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **ANKIT TALEKAR** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **S.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

Gain knowledge about enzymes, its classification, kinetics,and enzyme inhibition.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit I Enzymology	**1.1** Definition – Enzyme, coenzyme, cofactor, apoenzyme, holoenzyme, prosthetic group, active site , enzyme specificity, Turnover number, specific activity, Katal, IU.	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.2 IUB / EC classification upto one digit. Enzyme specificity :Fischers lock & key and Koshlands induced fit theories	2	David L. Nelson, Michal M. Cox, Lehniger Principles of	White board

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			Biochemistry, W. H. Freeman & company, New york, 4th edition	
	1.3 Activation energy, mechanism of enzyme action (concept of active site, single and bi- substrate reaction), factors affecting enzyme activity – substrate concentration, pH, temperature	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.4 Enzyme kinetics – Derivation of Michaelis - Menten equation and Lineweaver Burk plot for mono-substrate reactions and numerical problems based on them.	4	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.5 Enzyme inhibition – Reversible and Irreversible; competitive and non competitive, (one example of each)	4	David L. Nelson, Michal M. Cox,	White board

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	Numerical problems on above.		Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **F.Y BSc** SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand basic structure and various forms of amino acids.
- To learn the classifications of amino acids.
- To understand physical and chemical properties of amino acids.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit II 2.1 Amino acids and proteins	2.1.1 Amino acid structure - D & L forms of all 20 amino acids	03	• Lehninger, Albert L, Biochemistry, Kalyani Publishers • Nelson, D. L. and Cox, M.M, (2008). Lehninger, Principles of Biochemistry 5th Edition, W. H. Freeman and Company, NY., USA.	• Students were explained about structures by using various images and videos.
	2.1.2 Detailed classification based on polarity, essential and non-essential amino acid	03		• Students were explained about amino acids classification by interactive session.
	2.1.3 Physical properties: zwitter ions, pI of amino acids amino acids as ampholytes, melting point, optical rotation, UV absorption and chemical properties: Chemical reactions of amino acids with Ninhydrin, Sanger's reagent, Edman's reagent and Dansyl chloride	09 Total: 15		• Students were explained about physical and chemical reactions using images and presentation.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **F.Y BSc** SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about reasons for origin of life.
- To understand different theories behind evolution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit I Origin of Life & Formation of cells	1.1 Big bang theory, Theories on the origin of life: Abiogenesis, Heterotroph hypothesis, RNA world, protein world, Miller's experiment, Formation of the first cell, endosymbiont theory	05	●Verma, P.S. and Agarwal V.K.; Cell Biology, Genetics, Molecular biology, Evolution and Ecology ; Publishers : S. Chand and Co.Ltd., (2009)	●Students were explained via an interactive session. ● Diagrams related to theories were shown online.
	1.2 Evolution - Darwinian theory, Modern synthetic theory of evolution and its factors: Gene mutations(recombination), heredity, natural selection and isolation Biological evidences: Fossil record, chemical and anatomical similarities of related life forms, geographic distribution of related species, genetic changes in living organisms over generations and Mechanism of evolution, Gene flow and genetic drift, Hardy-Weinberg principle	10 Total: 15		●Students were explained about amino acids classification via videos. ●They were shown photos of scientists behind these theories. ●Also a project was assigned to them on evolution.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **S.Y BSc** SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about beneficial and harmful organisms for body in detail.
- To understand structure, classification and life cycle of virus.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit I Microbiology in Human Health and Diseases	1.1 Beneficial Microorganism: Lactobacillus, Normal flora of human gut, Probiotics, Yeast, Nitrogen fixing bacteria (Rhizobium and Azotobacter)	03	●Michael J. Pelczar, Jr; E.C.S. Chan; Noel R. Krieg; Microbiology Tata McGraw Hill. ●Roger Y stanier; General Microbiology,Macmillan, 1981	●Students were explained about beneficial and harmful bacteria, structure, classification and life cycle of virus with the help of slides.
	1.2 Harmful microorganisms: 1.2.1 Air borne- *Mycobacterium tuberculae*(Tuberculosis), *Corynebacterium diptheriae*(Diptheria), *Candida sp*., *Haemophilus influenzae* (Influenza), morbillivirus (measles) 1.2.2 Water borne- *Shigella sp.* (Dysentery), *Vibrio cholerae* (Cholera), *Salmonella sp.* (Enteric fever), Hepatitis virus 1.2.3 Food borne- *Staphylococcus aureus*, *Clostridium botulinum* (Botulism) 1.2.4 Soil borne- *Clostridium tetani*	08		
	1.3 Virology- General structure of a typical virus, classification of viruses based on genome (DNA, RNA); symmetry (helical, icosahedral, complex), host (bacteria, plant, animal, insect); Lytic and Lysogenic cycle	04 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS**: S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To explain the process of plant tissue culture and animal tissue culture
- To understand the applications of the same.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit II Cell and Tissue Culture	2.1 Plant Tissue Culture: 2.1.1 History, Introduction or definition (explants, callus, dedifferentiation, re-differentiation) concept of totipotency 2.1.2 Culture techniques; Types of culture (Callus culture, Organ culture, protoplast culture, cell culture) 2.1.3 Applications: secondary metabolites in plant culture, Micropropagation	07	●Jogdand, Advances in Biotechnology; Himalaya Publishing House ●U. Satyanarayan ;Biotechnology, Books & allied (P) Ltd., Kolkata	●Students were explained the procedures with the help of slides.
	2.2 Animal Cell Culture: 2.2.1 History, Introduction to Primary cell culture, Cell lines (Finite and continuous) 2.2.2 Culture techniques used for primary culture, 2.2.3 Stem cell culture, Animal Organ Culture, Whole embryo culture 2.2.4 Applications: hybridoma (monoclonal antibody), production of Vaccines	08 Total:15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS**: S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Gain knowledge about pH, buffers pK, titration curves of acids and will be able to solve problems on above concepts.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit I Acids, bases, buffers and ionic equilibria	**1.1** Definition – pH, pK, pKw, isoelectric pH, buffer, buffering capacity	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.2 Derivations: Ionic product of water, Hendersen–Hasselbalch equation,	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board

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	1.3 Relation between pI, pKa_1 and pKa_2 for a neutral, acidic and basic amino acid 1.3.1 Ionization and titration curves of glycine, lysine and aspartic acid; pKa, pHm, and pI values of these amino acids 1.3.2 Sorensen's reaction and formol titration of amino acids	5	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.4 Physiological buffers: Hb - HHb, carbonate-bicarbonate, phosphate and protein	2	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	1.5 Numerical on above concepts	3	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS**: S.Y BSc** SEMESTER: **III** MONTH:**JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about different types of microscopic techniques
- Understand working and instrumentation of various microscopes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
US BCH 301 UNIT III Microscopy	**3.1** History, Basic principles of microscopy, of light and colour.	03	• Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology (seventh edition) • http://www.microscopyu.com/ • http://www.microscopy.fsu.edu/ • http://www.microscopy-analysis.com/ • http://www.msa.microscopy.org • http://www.openmicroscopy.org	• Youtube videos, Powerpoint presentation, online quiz.
	3.2 Dissection and compound microscope: Construction and parts of a microscope, function of each part, levels of magnification, concept of refractive index and role of oil in magnification	04		
	3.3 Specialized microscopy I; 3.3.1 Differential interference contrast (DIC), 3.3.2 Phase contrast, 3.3.3 Dark Field	04		
	3.4 Specialized Microscopy II; 3.4.1 Simple fluorescence microscopy, 3.4.2 Confocal microscopy 3.4.3 Electron microscopy • Principle, applications and comparative study • Types - SEM and TEM	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the overall organization of the immune system, relationship between innate and adaptive systems and humoral and cell mediated immunity.
- To learn about the cells and organs of immune system in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit I 1.0 Human immune system	1.1 Types of Immunity Innate immunity – Anatomical barriers, physiological barriers, Characteristics of Inflammation, phagocytosis [no mechanism] Adaptive immunity – Active & Passive Humoral & Cell mediated immunity.	06	●Immunology by Goldsby and Kuby	●Students were explained about human immune system with the help of videos and diagrams.
	1.2 Organs of the immune system: Primary lymphoid organs: Thymus, Bone marrow Secondary lymphoid organs: Lymphatic system, Lymph nodes, Spleen, MALT.	04		
	1.3 Cells of the immune system: Lymphocytes – B cells and T cells, Natural killer cells – Mononuclear phagocytes, Granulocytes, Antigen presenting cells. Clonal selection & immunologic memory. Cytokines: biological functions of IL1, tumor necrosis factoralpha, interferon –alpha, IL2, interferon-gamma.	05 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the overall organization of the immune system.
- To learn the structure and function of antibodies.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II 2.0 Antigen-Antibody interactions	2.1 Antigens: Antigenicity, immunogenicity, epitope, factors determining immunogenicity, Haptens. Antibodies: Fine structure of immunoglobulin, Antibodymediated functions, Antibody classes, Monoclonal antibodies (concept, production and applications)	09	• Immunology by Goldsby and Kuby	• Students were explained about antigens and antibodies with the help of videos and diagrams.
	2.2 Antibody diversity: Multigene organization of immunoglobulin genes – Lambda, kappa & heavy chain Light chain DNA – VJ rearrangements Heavy chain DNA - VDJ rearrangements	06 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Understand gene libraries, various gene transfer techniques. They will also study about processes like PCR, DNA fingerprinting and DNA sequencing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper III Unit IV Recombinant DNA Technology II	4.1 Isolation of gene: Gene library and c-DNA library; Southern blot; Chimeric DNA	4	iGenetics by Russel	White board and videos
	4.2 Gene Transfer: Transformation, Transfection, Electroporation, Microinjection, Liposome, Microprojectile (in brief) Selection and screening- Antibiotic and colony hybridization	3	iGenetics by Russel	
	4.3 DNA Amplification by PCR (Steps, Types, Applications)	4	iGenetics by Russel	
	4.4 DNA fingerprinting, DNA sequencing (any one method)	4	iGenetics by Russel	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Gain knowledge about the concept of bioenergetics including electron transport chain and its inhibitors. They will also study about the oxidative phosphorylation process in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-II (Bioenergetics & Oxidative Phosphorylation)	2.1 Bioenergetics: Concept of free energy; Respiratory electron transport chain – Carriers [basic chemistry, redox potentials, orientation on the membrane, sequence}; Q cycle in Complex III; Inhibitors of electron transport – Antimycin A , Amytal, Rotenone, CN, Azide, CO; Barbital Malate-Aspartate shuttle and Glycerol phosphate shuttle	6	1)Lehninger's- Principles of Biochemistry by David L. Nelson 2) Harper's Illustrated Biochemistry by Robert K. Murray 3) Biochemistry by Donald Voet 4) Biochemistry by Jeremy M. Berg 5) Biochemistry (2 Volume Set): The Chemical Reactions of	White board and videos
	2.2 Oxidative phosphorylation –Chemiosmotic hypothesis, Proton motive force; Structure of ATP synthase, Uncoupler- of ETC and Oxidative phosphorylation [DNP]	3		
	2.3 Photosynthesis – Light and dark reactions, Z scheme and electron carriers, photophosphorylation [linear and cyclic]; Calvin cycle – schematic with enzymes; Photorespiration	4		

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	2.4 Bioluminescence. Phenomenon and its biological significance. Applications of Bioluminescence	2	Living Cells by David E. Metzler	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **F.Y BSc** SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the parts and function of respiratory and excretory system in detail.
- To learn disorders of respiratory and excretory system and their causes in detail.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit II Physiology of respiration and excretion	2.1 Respiratory system	01	• Guyton, Arthur C. and Hall, John E.;Text book of Medical physiology ; Harcourt Brace & Company Asia Pvt. Ltd.	• Students were explained via interactive sessions.
	2.2 Breathing - inspiration and expiration,	01		
	2.3 Composition of air and partial pressure of gases	01		
	2.4 Physical exchange of gases 2.4.1 Transport of oxygen 2.4.2 Transport of carbon dioxide Respiratory disorders – cyanosis, respiratory acidosis and alkalosis	03		• Students were explained about it by structures and reactions in the presentation.
	2.5 Excretion -2.5.1 Structure of the nephron: Bowman's capsule & glomerulus - Structure & function, (ultrafiltration, pressures involved, GFR, regulation of GFR); Renal tubule - structure & function (proximal and distal convoluted tubules and Henle's loop) 2.5.2 Urine formation: Reabsorption / Secretion of glucose, Na+, K+. HCO3 Cl^- and H+ : renal threshold, Excretory disorder: Nephritis	09 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **S.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about different movements of plants.
- To understand process of contraction and relaxation of muscles in mammals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II Unit II Movement and locomotion	2.1 Movement in plants 2.1.1 Movements of Locomotion Spontaneous: Ciliary, Amoeboid, Cyclosis (Rotation, Circulation) Induced: Chemotaxis, Phototaxis, Thermotaxis 2.1.2 Movements of Curvature: Mechanical: hygroscopic movements Vital:i)Spontaneous-movements of growth(nutation, circumutation, Hyponasty, epinasty); movements of variation ii)Induced–Tropic-hapto/geo/hydrotropism; Nastic–seismonasty, Nyctynasty	10	• S.K.Verma and Mohit Verma, Plant physiology, Biochemistry and Biotechnology • Tortora G J, Derrickson B H; Principles of Anatomy and Physiology, Wiley	• Students were explained about different movements in plants with the help of videos.
	2.2 Muscle contraction 2.2.1 Structural organization of a muscle fibre, myofibril 2.2.2 Contraction and Relaxation of Muscles; -mechanisms, Other types of contractions–e.g. twitch, tetanus, Isotonic, Isometric regulation of Muscle contraction	05 Total:15		• Students were explained about movements of muscle with the help of videos.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: S**.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To learn about different trends in biotechnology and their applications.
- To understand process of biodegradation of various contaminants.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III Unit I Trends in Biotechnology	1.1 Bioremediation: 1.1.1 Introduction to terms – Bioremediation, Biotransformation, Xenobiotics, Recalcitrant xenobiotics, Biomagnification, Factors affecting bioremediation 1.1.2 Types of Bioremediation (Insitu, Exsitu); Types of reactions (Aerobic, anaerobic, sequential) 1.1.3 Applications of Biodegradation - hydrocarbons, (Oil spills) Pesticides and herbicides, Heavy metals (Uranium) contaminated soil and waste land, Ground Water; Genetically Engineered Microbes in bioremediation	08	• U. Satyanarayan ;Biotechnology, Books & allied (P) Ltd., Kolkata	• Students were explained about different trends in biotechnology with the help of videos.
	1.2 Biopesticides: 1.2.1 Introduction; Types of Biological Control (Classical, inoculation, Inundation); 1.2.2 Examples each of Bacterial, Viral, Fungal and Protozoal biopesticide .	04		
	1.3 Biofungicide: Examples and applications	02		
	1.4 Biofertilizers: Examples and applications	01 Total:15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: S**.Y BSc** SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand biochemical processes involved in animal and plant studies.
- Learn about different sell and tissue handling and processing techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH 401 UNIT III Approaches to Biochemical investigations	**3.1** Whole animal and plant studies - the advantages and disadvantages of any four model systems for biochemical investigation (e.g. *E.coli*, yeast, *Dictyostelium*, *C. elegans*, Drosophila, *Arabidopsis)*	05	• David L. Nelson, Michael M. Cox, Lehninger; Principles of Biochemistry, W H Freeman & Co.	• Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	3.2 Organ & tissue studies	03		
	3.3 Isolated and cultured tissue and cell techniques: isolation, culture and counting of cells.	03		
	3.4 *Cell Fractionation* 3.4.1 Cell rupture – solid shear, liquid shear, high pressure, ultrasound, osmotic shock, chemical treatment (enzyme, organic solvent), temperature. 3.4.2 Choice of suspension medium (isotonic & hypotonic solution, PBS) and separation methods.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II Unit 3 Pharmacology	3.1. General pharmacology Pharmacodynamics, Physicochemical properties of drugs, Drug absorption: through-GIT, pulmonary, renal, placental and blood-brain barrier Bioavailability and Bioequivalence Drug Distribution, Metabolism and Excretion	05	• Essentials of Pharmacotherapeutics by FSK Brara • Textbook of Medical Biochemistry by M.N. Chatterjea & Ranashinde	•Students were explained with the help of videos and diagrams.
	3.2 Bioassays: Preclinical and clinical evaluation, Therapeutic drug monitoring	05		
	3.3 Pharmacokinetics: LD50, ED50, Half Life, Loading dose, Maintenance dose, Therapeutic dose, Therapeutic Index, Drug plasma concentration, Volume of distribution	05 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II Unit 4 Mechanism of Drug Action and Therapeutic	4.1Mechanism of action of drugs: i. Specific interaction – receptor mediated ii. Partially specific – drugs via enzymes iii. Nonspecific interactions – antimetabolites and antiseptics iv. Through Antibodies v. Placebo effects	05	● Essentials of Pharmacotherapeutics by FSK Brara ● Textbook of Medical Biochemistry by M.N. Chatterjea & Ranashinde	● Students were explained with the help of videos and diagrams.
	4.2 Mechanism of action of drugs: i. Specific interaction – receptor mediated ii. Partially specific – drugs via enzymes iii. Nonspecific interactions – antimetabolites and antiseptics iv. Through Antibodies v. Placebo effects Therapeutic drugs: (Mechanism of action and adverse effects) Anti-inflammatory – non steroid anti-inflammatory NSAID [Ibuprofen], Salicylates – [Aspirins] Cardiovascular drugs- CVS [Ca channel blocker-Amlodipine, and Beta blocker – Proprenolol	10 Total: 15		

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	Antibiotic – Penicillin and Sulphonamide Antacid- Proton pump blocker –Omeprazole			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:
- To be familiar with the MHC; its structure and classes, specific role of each class of MHC and importance in immune response and graft rejection.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit II 2.0 Major histocompatibility complex & Transplant immunology	2.1. Major histocompatibility complex: MHC polymorphism & organization of MHC genes- class I & class II; Cellular distribution & structure of class I & II molecules; Self MHC restriction of T cells. Role of antigen presenting cells.	05	●Immunology by Goldsby and Kuby	●Students were explained about MHC, transplantation and autoimmunity with the help of videos and diagrams.
	2.2 Transplant immunology: Types of transplant; immunological basis of allograft rejection	03		
	2.3 Autoimmunity: Organ specific –Myasthenia gravis; Hashimoto's thyroiditis, Insulin dependent diabetes mellitus Systemic – Rheumatoid arthritis, Multiple sclerosis, Systemic lupus erythematosus (immunological basis of these autoimmune diseases)	07 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

The learners will be able to:
Gain knowledge about various antigen-antibody interactions, techniques for detecting them, and concept of complement system in human body.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV Unit I Antigen-Antibody interactions & Complement system	1.1 Antigen- Antibody interactions: 1.1.1 Forces involved, antibody affinity, antibody avidity. 1.1.2 Precipitation reactions – Oudins, Ouchterlony 1.1.3 Agglutination reactions: Blood typing, bacterial agglutination, Passive agglutination, agglutination inhibition, Coomb's test. Immunoelectrophoresis; 1.1.4 Principles of Radioimmunoassay, ELISA, 1.1.5 Immunofluorescence	10	Immunology by Goldsby and Kuby	Presentation/Videos
	1.2 Complement 1.2.1 Components of complement; 1.2.2 Complement activation – Classical & alternate pathway; formation of membrane attack complex. 1.2.3 Biological consequences of complement activation.[in brief]	5	Immunology by Goldsby and Kuby	Presentation/Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **TANVI BORE** DEPARTMENT: **BIOCHEMISTRY**
CLASS: **T.Y BSc** SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- To understand the basic concepts of demography and epidemiology of aging and pathophysiology and issues in common diseases of older people.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV Unit IV 4.0 Endocrine Diseases & Ageing	4.1 Endocrine diseases: Diabetes mellitus. Hyper and Hypothyroidism, Cushing's syndrome, Acromegaly	05	●Immunology by Goldsby and Kuby	●Students were explained about diseases with the help of videos and diagrams. ●They were taught about ageing using videos.
	4.2 Diabetes insipidus. 4.2 Ageing: Definition of ageing. Molecular changes during ageing. Theories of Ageing.	07		
	4.3 Alzheimer's disease, Parkinson's diseases	03 Total: 15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define Air Pollution.
The learner will be able to get an insight on the sources of air pollution.
The learner will be able to understand the impact of air pollution on the environment.

The learners will be able to: understand the problems associated with air pollution and the impact of air pollution on the different aspects of the environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 1 **Title:** Air	**ATMOSPHERE** - Composition and structure of atmosphere - Particles , ions and radicals in the atmosphere - Chemical and photochemical reactions in the atmosphere [reactions of oxygen, ozone, sulphur dioxide , nitrogen oxide and organic compounds]	08	Environmental Chemistry by Anil Kumar De	White Board-Marker
	AIR POLLUTANTS - CO, Oxides of Nitrogen, SO2, hydrocarbons and photochemical smog, Greenhouse gases, suspended particulate matter[sources and effect of] , depletion of ozone	07	Environmental Chemistry by Anil Kumar De	White Board-Marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define water Pollution.
The learner will be able to get an insight on the sources of water pollution.
The learner will be able to understand the impact of water pollution on the environment and human health.

The learners will be able to: understand the problems associated with water pollution and the significance of different water treatment techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 2 **Title:** Water & Water treatment	**WATER HYDROSPHERE** - Characteristics and the water cycle	05	Environmental Chemistry by Anil Kumar De	White Board-Marker
	WATER POLLUTION - Organic pollutants[pesticides, insecticides, detergents, oil spills, toxic organic chemicals] - Inorganic pollutants [heavy metals – Hg, Pb, As, Cd] Thermal pollution of water	05	Environmental Chemistry by Anil Kumar De & A Textbook of Environmental Chemistry and Pollution Control by S.S.Dara	White Board-Marker
	WATER TREATMENT - Criteria for water purity, Water purification [preliminary, - primary, secondary, tertiary- chlorination, ion exchange]	05		White Board-Marker

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define RCF & RPM, and state the relationship between them.
The learner will be able understand the Beer-Lambert law and derive it.
The learner will be able to know the different types of centrifugation techniques and their applications.
The learners will be able to: understand the working and application of a centrifuge and spectrophotometer.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I (USBCH601) Metabolism & analytical techniques-II Unit 3 **Title:** Centrifugation and Spectroscopy	**CENTRIFUGATION** RCF , RPM and derivation of an equation relating the two ; Nomogram ; Sedimentation coefficient	15	Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology	White Board-Marker
	Types and applications of centrifuges – Clinical, High speed, Ultra centrifuge - preparative and analytical.			
	Types of centrifugation and its applications– Differential, Rate zonal, Isopycnic (Centrifugation with and without density gradients)			
	SPECTROSCOPY Beer-Lambert law, derivation , limitations, application – estimation of sugar(DNSA) and protein(Biuret); concepts of Lambda max; determination of molar extinction coefficient		Wilson and Walker's Principles and Techniques of Biochemistry and Molecular Biology **&** Analytical Chemistry Textbook (S.Y.B.Sc.) **&** epg pathshala	White Board-Marker
	Construction and working of a simple colorimeter and spectrophotometer			
	Applications of Beer-Lambert law in the estimation of sugar[DNSA] and protein[Biuret]			
	Numericals based on the above concepts			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MR. ROHAN LOUIS D'SOUZA** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSC.**

SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S: The learner will be able to define RCF & RPM, and state the relationship between them.
The learner will be able to understand the Beer-Lambert law and derive it.
The learner will be able to know the different types of centrifugation techniques and their applications.

The learners will be able to: understand the working and application of a centrifuge and spectrophotometer.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 4 (USBCH604) Immunology & pathophysiology-II Unit 3 **Title:** Virology & AIDS	General Structure of Virus	15	Fenner And White's Medical Virology & Prescott's Microbiology	White Board-Marker You-tube videos
	Structure and mechanism of replication in: 1. Vaccinia 2. Polio 3. Influenza			
	AIDS: Structure and genetics basis of AIDS virus. Replication of AIDS Virus. Symptoms and Causes of AIDS. AIDS Therapy.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **FY BSc**
SEMESTER**: I** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Understand the concepts of microbiology this includes the historical background, general characteristics of bacteria, microbial taxonomy, structure and function of bacterial cell wall and different staining methods for identification of bacteria.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT 3 MICROBIOLOGY I	Historical background and general characteristics of bacteria	2	Microbiology by Pelczar Michael J	Google Meet/ Presentations/ Videos and Diagrams
	Microbial taxonomy- species and strains, classification based on morpholoy, staining reaction, nutrition and extreme environment	4	Microbiology by Pelczar Michael J	
	Bacterial cell wall- structure and function, components of peptidolycan frame work	4	Microbiology by Pelczar Michael J	
	Introduction to extremophiles	2	Britannica encyclopedia	
	Staining methods and microscopic identification of bacteria	3	Microbiology by Pelczar Michael J And Cliffs notes.com	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **FY BSc**
SEMESTER**: I** MONTH**: JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to: understand the deep knowledge of carbohydrates like their classification, sources, importance and some chemical properties

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper – 1 Unit – III Carbohydrates	Definition, Classification, and functions of carbohydrates (mono, oligo, polysaccharides)	2	Biochemistry -lehninger	White Board
	Monosaccharides ● Classification in terms of aldoses and ketoses ● Occurrence,structures and significance of glucose, fructose, galactose, mannose, and ribos	3	Biochemistry -lehninger	White Board
	Properties: a) Physical - isomerism D & L, optical; epimers : anomers b) Chemical reactions - ● oxidation to produce aldonic. aldaric and uronic acids (with respect to glucose); ● reducing action in boiling alkali, enediol formation (with respect to glucose and fructose) ● Osazone formation (with respect to glucose and fructose ● Orcinol (with respect to ribose)	5	Biochemistry -lehninger	White Board

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	Disaccharides ● Occurrence and structure of maltose , lactose and sucrose ● Formation of glycosidic bonds	2	Biochemistry -lehninger	White Board
	Polysaccharides □ Classification based on function. storage and structure i. Composition: homo & hetero. with examples ii. Storage : starch and glycogen - action of amylase on starch iii. Structural: cellulose, chitin	3	Biochemistry -lehninger	White Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **SY BSc**
SEMESTER**: III** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : To acquire information about the different concepts of Industrial biotechnology.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 3 INDUSTRIAL BIOTECHNOLOGY	Basics of fermentation.	4	Biochemistry by Satyanarayan Biotechnology by Satyanarayan	Google Meet , Presentation, Youtube And Online quizzes.
	Industrial production of wine and penicillin.	2		
	Immobilisation of enzymes.	4		
	Biosensors	4		
	Single cell proteins	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____16_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **SY BSc**
SEMESTER**: III** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about Mendalian Genetics with various crossing techniques
- Learn about gene interaction and numerical for the different concepts

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH302 UNIT I Genetics: I	**1.1 History**: Contributions of Mendel, Bateson, Hardy-Weinberg, Garrod, Morgan, Griffith, Beadle and Tatum, Avery, Mac Leod, Mc Carthy, Lederberg, Tatum, Barbara Mclintock, Hershey & Chase, Watson &Crick.	04	• Russell iGenetics Molecular Approach 3rd edition • CliffsAP Biology 3rd edition.	• Google meet, Youtube videos, Powerpoint presentation, online quiz.
	1.2 Mendelian genetics: Mendel's experiments - Monohybrid, Dihybrid crosses, Laws of inheritance	04		
	1.3 Dominance, recessivity, co dominance, incomplete (semi) dominance, lethal genes	04		
	1.4 Gene interaction -Epistasis, types of epistasis, multiple alleles, maternal effects	03		
	1.5 Numerical on above concepts			

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Understand simple concepts related to metabolism , metabolic roles played by vitamins and minerals, appreciate the correlation between energy molecules, reducing equivalents and pathways.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT 1 ROLE OF VITAMINS AND MINERALS IN METABOLISM	Minerals as cofactors- Iron, Calcium, Magnesiun, Zinc, Selenium, Molybdenum	3	Lehninger Medical biochemistry by Rana shinde Biochemistry by satyanarayan	Google Meet , Youtube And Online quizzes.
	Water soluble vitamins-thiamin, riboflavin, niacin, pyridoxines	4		
	Biotin, Lipoic acid- chemistry, its co-enzyme and biochemical role	2		
	Fat soluble vitamin- A, D, E and K (INTRODUCTION)	1		
	Vit A- chemistry, wald's cycle, role of rhodopsin, transducin, cGMP Vit D- role in Ca absorption and mobilization Vit E and K- physiological role	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVES:
The learners will be able to : Understand the mechanisms of dna transcription and translation in prokaryotes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT 2 TRANSCRIPTION AND TRANSLATION	Transcription in prokaryotes	1	Igenetics by Russel Biochemistry by satyanarayan	Google Meet , Youtube And Online quizzes.
	Mechanism of RNA transcription- initiation, elongation and termination,	4		
	Processing of RNA , concept of split genes, reverse transcription and role of inhibitor- Rifampicin, Actinomycin D	4		
	Translation in prokaryotes- genetic code and mechanism of translation	3		
	Post translational modification of proteins. Inhibitors and mode of action	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Gain knowledge about DNA replication process in prokaryotes, DNA damage and their repair mechanisms.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper III Unit I DNA Replication & Repair	**1.1 Replication of DNA (in prokaryotes) -** Models of DNA replication : Semi-conservative, Dispersive & Conservative; Modes of DNA replication: Theta & rolling circle; Enzymes (pol I, II and III) and accessory proteins; Mechanism of semi-conservative replication;	9	iGenetics by Russel	White board
	1.2 DNA repair: Direct, Photoreactivation,O6 methyl guanine DNA methyl transferase, Excision repair, Mismatch repair, Recombination repair, SOS-error prone repair	6	iGenetics by Russel	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **GHALIB RAHAB AKHTAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **TY BSc**
SEMESTER**: V** MONTH: **JUNE- OCTOBER** ACADEMIC YEAR- **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about Cancer and its physiology
- Understand causes of cancer and treatment procedure.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH504 UNIT IV Cancer	4.1 Biology of Cancer	02	• Cell and Molecular Biology by Gerald Karp, 6th edition • Biochemistry by U.Satyanarayana	• Google meet, Youtube videos, Powerpoint presentation, online quiz.
	4.2 Physiology of Cancer cells	02		
	4.3 Causes of cancer Carcinogens: Types (Physical, Chemical and Biological, Environmental Factor); AMES test	03		
	4.4 Oncogenes and activation of oncogenes	02		
	4.5 Genetics of cancer with reference to p53 and Bcl2.	02		
	4.6 Cancer therapy (Chemo – purine, pyrimidine and folate analogs)	03		
	4.7 Cancer and the cell cycle	01		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. NIKHIL CHANDRAKANT TELI** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.B.Sc.**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to define soil and noise pollution.
The learners will be able to understand the types of soil and noise pollution.
The learner will be able to get an insight on causes and consequences of soil and noise pollution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 3 **Title:** Soil & Noise	**Soil:** Composition of soil, Nitrogen cycle Types of soil pollution – acidification, agrochemical pollution, salinization, and contamination by metalliferous wastes **Noise:** Noise and its measurement Classification of Noise Causes and consequences of Noise pollution	15	Environmental Chemistry by Anil Kumar De The textbook of Environmental studies by Erach Bharucha Fundamental concepts in Environmental studies by Dr. D. D. Mishra	Google Classroom, Google Meet, YouTube Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Dr. NIKHIL CHANDRAKANT TELI** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.B.Sc.**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to differentiate between conventional and non-conventional sources of energy.
The learners will be able to understand the Sources and remedial measures for Industrial pollutants.
The learner will be able to get an insight on Environmental monitoring.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II (USBCH502) Environmental Science Unit 4 **Title:** Energy, Industrial Pollutants and Environmental Monitoring	**Energy Conventional Sources :** Coal, Coke, Natural gas (CNG), Petroleum products (Petrol, Diesel, Kerosene, Oils, Naphtha) Non-Conventional Sources : Solar , Geothermal, Tidal, Hydroelectric power, Nuclear energy, Biofuels , Natural gas (Synthetic Natural Gas) **Industrial pollutants (Sources and remedial measures):** Polymers and Plastics Asbestos Poly Chlorinated Biphenyls Mining – Acid mine drainage **Environmental monitoring:** Approaches used to monitor the environment-air, water and soil. [Principles and Significance only. Protocols for each factor – not required] Remote Sensing	15	Environmental Chemistry by Anil Kumar De The textbook of Environmental studies by Erach Bharucha Fundamental concepts in Environmental studies by Dr. D. D. Mishra	Google Classroom, Google Meet, YouTube Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **I** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to: understand about Cell and their organelles and cell division

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – II The cell- cell wall, cell membrane, cell organelles and cell division	Structural organization of cells ● Prokaryotic, Eukaryotic (plant & animal) and yeast cells - a comparative overview	1	Cell and Molecular Biology by Gerald Karp	Power Point, YouTube And Online quizzes.
	Cell wall structure (plant), cell membrane (fluid mosaic model) ● Cytoskeleton: microtubules & microfilaments	2	Cell and Molecular Biology by Gerald Karp	
	Cell organelles ● Mitochondrion*:* Organization & function of the mitochondria, mitochondrial genome ● Chloroplast: Structure and function of the chloroplast. the chloroplast genome, other plastids ● Ribosome*: ER*: *Golgi* Structure & Function of Ribosome, ER, Golgi apparatus	9	Cell and Molecular Biology by Gerald Karp	

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	● Peroxisome & Lysosome: Peroxisome function & assembly (in brief) and Lysosome structure and function ● Nucleus: Structure & function of the nucleus, nuclear envelope, nuclear pores, nuclear matrix and Nucleolus			
	Mitosis and Meiosis	3	Cell and Molecular Biology by Gerald Karp	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to: understand about physiology of body fluids

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 2 Blood and Body Fluids	Fluid compartments of the body–ICF and ECF	3	Medical Physiology by Guyton & Hall	Power Point, YouTube And Online quizzes. .
	Blood: Composition, characteristics and function; role of plasma proteins, Starling's hypothesis; blood clotting and factors involved	5	Medical Physiology by Guyton & Hall	
	Bile: Composition, characteristics and function; storage	3	Medical Physiology by Guyton & Hall	
	Urine: Composition–normal and abnormal constituents; formation of urine	2	Medical Physiology by Guyton & Hall	
	Lymph: Composition, Formation and Circulation	2	Medical Physiology by Guyton & Hall	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : understand and gain knowledge about transportation system in plant and mammals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 3 Biological transport mechanisms	**Transport in plants**: Role of xylem and phloem	1	S.K. Verma and Mohit Verma; Plant physiology, Biochemistry and Biotechnology	Power Point, YouTube And Online quizzes.
	Transport in blood: Transport of gases CO_2 and O_2, Role of hemoglobin, O_2 dissociation curves, Bohr effect Chloride shift	5	Medical Physiology by Guyton & Hall	
	Transport of Metabolites: transport of lipids – lipoproteins and their types, role of plasma protein, albumin in transport of metabolites and drugs	3	Medical Physiology by Guyton & Hall	
	Transport of Ions: Fe -Ferritin and transferrin and Calcium	2	Medical Physiology by Guyton & Hall	
	Transport across cell membranes ● Channel proteins and Carrier proteins ● Passive transport (simple and facilitated diffusion) with suitable examples; concept of symport, antiport,	4	S.K. Verma and Mohit Verma; Plant physiology, Biochemistry	

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	uniport, Endocytosis and Exocytosis – with one example each ● Active transport: primary–Na+&K+ pump, secondary Glucose-amino acid transport, types of glucose transporters (GLUT 1 to GLUT 4), aquaporins, ion channel inhibitors like gramicidin and valinomycin		and Biotechnology	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **III** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Study about the concepts and processes of diffusion , osmosis, colloids , viscocity and surface tension.

PAPER , UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Physicochemical principles	**2.1** Diffusion and osmosis 2.1.1 Ways of expressing solute concentration - mole, molal, normal, percent, activity & ionic strength. 2.1.2 Diffusion & diffusion coefficient and factors affecting diffusion of solute in solution 2.1.3 Osmosis - Vant Hoff's law of osmotic pressure law & mathematical expression (no derivation), mechanism of osmosis, role of osmosis in physiology. 2.1.4 Renal dialysis: Principles and process	7	Biophysical Chemistry, Upadhyay	White board
	2.2 Colloids and viscosity 2.2.1 Colloidal state in relation to surface forces, surface area, electrical charge, precipitation and flocculation. 2.2.2 Surface tension and its measurement, factors affecting surface tension Eg. Role of bile in digestion 2.2.3 Viscosity - definition, measurement; Donnan membrane equilibrium, relation between Donnan equilibrium and osmotic pressure.	8	Biophysical Chemistry, Upadhyay	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : comprehend the catabolism and anabolism of carbohydrates and the disorders associate with these biomolecules.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 1 UNIT – III Carbohydrate metabolism	Catabolism – Cellular location, sequence of reactions, labelling of carbon atoms, and energetics of: Glycolysis (aerobic and anaerobic); Oxidation of pyruvate, Kreb cycle; Glyoxylate pathway; Glycogenolysis – [schematic – no structures, but with enzymes and coenzymes]	7	Biochemistry -lehninger	Power point
	Anabolism – HMP shunt (Cellular location, sequence of reactions, multifunctional nature); Gluconeogenesis,Glycogenesis –[schematic – no structures, but with enzymes and coenzymes]	5	Biochemistry -lehninger	Power point
	Disorders of carbohydrate metabolism: - Galactosemia, Fructosemia, - Lactose intolerance	3	Biochemistry -lehninger	Power point

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : understand the basic tools required and know the techniques of recombinant DNA technology, their applications and the use of the technology for the benefit of society.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 3 UNIT – III Recombinant DNA Technology I	Introduction to RDT	1	Biotechnology by U.Satyanarayana	Power Point, YouTube And Online quizzes.
	Tools for RDT ● Enzymes- Restriction endonucleases, ligases, terminal transferases, reverse transcriptase: ● Cloning and Expression Vectors- Plasmid, pBR 322, PUC-19, Bacteriophage – Lambda phage; Cosmid; Artificial Chromosomes (BAC and YAC); Shuttle vectors; ● Probes- DNA probes	9	Biotechnology by U.Satyanarayana	
	Applications of RDT- Agriculture (Bt Cotton); Medicine (Insulin); GM food	5	Biotechnology by U.Satyanarayana	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **V** MONTH: **JUNE-OCTOBER** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about metabolic, blood related and cardiovascular disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper IV UNIT III Pathophysiology of metabolic and other disorders	**3.1 Metabolic disorder** 3.1.1 Inborn error: With respect to Etiology and Clinical manifestations 3.1.2 Carbohydrate Metabolism: Glycogen storage disease Type I & III. 3.1.3 Amino acid Metabolism: Albinism, Phenylketonuria, Maple syrup urine disease, Alkaptonuria 3.1.4 Lipid Metabolism: Tay Sach’s disease, Niemann–Pick diseases, Fabry's disease	06	• Harper's Illustrated Biochemistry by Robert K. Murray • Lehninger’s- Principles of Biochemistry by David L. Nelson	• Youtube videos, Powerpoint presentation, online quiz.
	3.2 Blood related diseases: 3.2.1 Iron deficiency anemia 3.2.2 Sickle cell anemia 3.2.3 Thalassemia 3.2.4 Pernicious anemia 3.2.5 Hemophilia A and B	05		
	3.3 Cardio Vascular System and related diseases: 3.3.1 Hypertension, Arteriosclerosis and Atherosclerosis	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : understand in detail about fundamental structural and functional properties of the digestive system along with some disorders related to the digestive system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER 2 UNIT – I Physiology of digestion and absorption	Parts and Functions of gastrointestinal tract (GIT)	2	Medical Physiology – GUYTON & HALL	Power Point, YouTube And Online quizzes.
	Organs and Glands associated with GIT Secretions and Juices of GIT (Saliva, Gastric juice, Intestinal juice, pancreatic and Bile juice)	8	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of carbohydrates	1	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of Lipid	1	Medical Physiology – GUYTON & HALL	
	Digestion and Absorption of Proteins	1	Medical Physiology –	

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			GUYTON & HALL	
	Disorders - Peptic ulcer, Lactose Intolerance	2	Medical Physiology – GUYTON & HALL	Power Point, YouTube And Online quizzes..

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **F.Y.BSc**
SEMESTER: **II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:

The learners will be able to: understand about biochemical study of Lipids like definition, complex structure, importance, classification and some chemical properties.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER – 1 UNIT – 1 LIPIDS	Definition, classification (Bloor's) and functions of Lipids	2	Fundamental of Biochemistry by Jain & Jain	White board, Power Point, YouTube And Online quizzes.
	Fatty' acids and Triacylglycerol	1	Fundamental of Biochemistry by Jain & Jain	
	Classification & Chemistry, ● Saturated fatty acids - classification of C2 to C20: even carbon: Common and IUPAC names. Unsaturated fatty acids MUFA, PUFA (2.3.4 double bonds) Omega - 3.6.9 fatty acids. Triacylglycerol - simple and mixed - names and structure ● Chemical Reactions of fats Saponification, Iodination, Ozonolysis, Auto-oxidation,	6	Fundamental of Biochemistry by Jain & Jain	

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	Action of heat on glycerol and choline, Rancidity Definition & significance - Acid number, Saponification number, Iodine number, Reichert - Meissel number			
	Compound Lipids ● Functions of glycerophospholipids (PE.PC.PL) Phosphosphingolipids (ceramide, sphingomyelin), Glycolipids /Cerebrosides (gluco & galactocerebrosides)	4	Fundamental of Biochemistry by Jain & Jain	
	Steroids Cholesterol structure and biochemical significance.	2	Fundamental of Biochemistry by Jain & Jain	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S: The learners will be able to **:** understand the basic concept of Eukaryotic & Prokaryotic genome, their organization up-to chromosome & Recombination of genome in Prokaryotes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – 1 Genetics : II	**Genome organization**	1	Biotechnology - U. Satyanarayan	Power Point, YouTube And Online quizzes.
	Prokaryotic Genome: Nucleoid structure	1	Biotechnology - U. Satyanarayan	
	Eukaryotic chromosomes: Packaging of DNA(upto Solenoid structure), DNA supercoiling, Topoisomerase, Chromatin structure -Euchromatin, Heterochromatin, structure of condensed chromatin, Centromere, kinetochore, telomere, Comparison of chromosomal structure in prokaryotes and Eukaryotes	9	Biotechnology - U. Satyanarayan	
	Recombination in prokaryotes	1	Biotechnology - U. Satyanarayan	
	Transformation: Transformation in *S. pneumonia* Transduction: General features with one example	1	Biotechnology - U. Satyanarayan	
	Conjugation: Mechanism F+, F- and Hfr strain	1	Biotechnology - U. Satyanarayan	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to :
Learn about various types of plant and animal hormones, their structures mechanisms and effects.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Plant growth regulators and endocrinology	**2.1** Plant growth regulators- Structure and function of- auxins, gibberellins, cytokinins, ethylene and abscisic acid.	3	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board
	2.2 Definition of hormones, hormone receptor, endocrine & exocrine glands	2	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board
	2.3 Classification of hormones on the basis of: 2.3.1 Distance of target tissue - autocrine, paracrine, endocrine. Hierarchal organization of the mammalian endocrine 15 lectures system	4	Hall John E ; Guyton : Textbook of Medical	White board

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	2.3.2 Chemistry - One example for each sub class.		Physiology Elsevier publishers	
	2.4 Chemistry & physiological role of thyroxine, oxytocin & vasopressin, Physiological role of glucocorticoids, FSH, LH, Estrogen, Progesterone (Reproductive cycle) Mode of action of steroid hormones and epinephrine. (amplification cascade Only till the level of protein kinase A) G protein not to be covered.	6	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **S.Y.BSc**
SEMESTER: **IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to:

- Understand the nervous system and the parts of the nervous system.
- Learn how all parts of the nervous system are involved in a neurotransmission.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH402 UNIT III Neurophysiology	**3.1 Nervous System Classification**: CNS,PNS; Components: Neurons (3types) and Neuroglia(6types)–structure and function, Axonal transport	05	• Metzler David E. Biochemistry, The chemical reactions of living cells, Volume II. Elsevier publications.	• Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	3.2 Nerve impulse transmission: Resting Membrane Potential, ion channels [voltage and ligand gated], Action Potential (depolarization, polarization and refraction period), propagation of action potential (salutatory & continuous conduction)	03		
	3.3 Synaptic transmission: Physiological anatomy of a synapse;– Electrical & Chemical synapses, Excitatory & inhibitory postsynaptic potentials, Agonists & Antagonists, inactivation of Neurotransmitter	03		
	3.4 Neurotransmitters: Structure and function of acetylcholine, catecholamines, GABA, glutamate, glycine	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to: understand breakdown and synthesis of fatty acid appreciate experiments carried out by scientists to enable understanding the pathways and cycles of lipid metabolism.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 1 UNIT – I Lipid metabolism	Catabolism - Knoop's experiment; Beta oxidation of even carbon saturated fatty acids (C4 to C20) Energetics of fatty acid oxidation. Beta oxidation of odd carbon chain fatty acid	7	Biochemistry -lehninger	Power Point, YouTube And Online quizzes.
	Anabolism – FAS complex; Fatty acid biosynthesis (palmitic acid); Ketone body formation, utilization, and the physiological significance of Ketone bodies in Diabetes mellitus, Starvation, Pregnancy and Alcoholism.	8	Biochemistry -lehninger	Power Point, YouTube And Online quizzes.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S
The learners will be able to: about proximate principles, nutritional status and balanced diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 2 UNIT – I Nutrition	Principles of nutrition	2	Biochemistry by U.Satyanarayana	Power Point, YouTube And Online quizzes.
	Nutrients [Proximate principles, vitamins and minerals (macro And micro- role of Ca, Mg, Na, K and Fe, Zn)], dietary fibre.	3	Biochemistry by U.Satyanarayana	
	Nutritional status [malnutrition (protein energy and protein calorie) and over nutrition]	2	Biochemistry by U.Satyanarayana	
	Balanced diet	1	Biochemistry by U.Satyanarayana	
	Energy Assessment - RQ, BMR;	2	Biochemistry by U.Satyanarayana	
	Anthropometry – BMI, Waist:hip ratio;	2	Biochemistry by U.Satyanarayana	
	Protein quality indices: Chemical score of amino acids, Protein Deficiency Corrected Amino Acid Score, Net Protein utilization	3	Biochemistry by U.Satyanarayana	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to : Learn about reactions of amino acids and protein metabolism, hormones and signal transduction.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit II Amino acid and protein metabolism & Endocrinology	2.1 Amino acid and protein metabolism – 2.1.1 Reactions of amino acids – Transamination [GOT/GPT and mechanism of transamination] ; Decarboxylation [His, Trp, Glu, and mechanism of decarboxylation] , Deamination [oxidative – NAD(P) linked dehydrogenases and D & L - Amino acid oxidases, Non oxidative – Asp, Cys, Ser] 2.1.2 Urea cycle – Cellular location, sequence of reactions, Labeling of N atom, transport of NH3	8	David L. Nelson, Michal M. Cox, Lehniger Principles of Biochemistry, W. H. Freeman & company, New york, 4th edition	White board
	2.2 **Endocrinology** 2.2.1 Chemistry, synthesis , secretion and physiological effects of Thyroxine and Insulin [synthesis from preproinsulin], Diabetes mellitus , Hypothyroidism [cretinism and myxedema], Hyperthyroidism [goiter – simple & toxic] Physiological role of Glucocorticoids, Oxytocin and ADH 2.2.2 Mode of action of steroid hormones, Effect of epinephrine on glycogen synthesis and breakdown [amplification cascade with G proteins, cAMP, adenylate cyclase, kinases]	7	Hall John E ; Guyton : Textbook of Medical Physiology Elsevier publishers	White board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SUNIL JAISAWAR** DEPARTMENT: **BIOCHEMISTRY** CLASS: **T.Y.BSc**
SEMESTER: **VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR: **2022-23**
LEARNING OBJECTIVE/S:
The learners will be able to:

- Learn about electrophoretic techniques and their different procedures.
- Understand about radioactivity and how it is used in biological experiments.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH601 UNIT IV Electrophoresis & Radioactivity	4.1 **Electrophoresis** 4.1.1 Principle: Factors affecting the rate of migration of sample in an electric field 4.1.2 Moving boundary and Zone electrophoresis; Components of electrophoresis unit/apparatus 4.1.3 Various support media - paper, cellulose acetate, agar, agarose and polyacrylamide 4.1.4Technique of electrophoresis with staining/visualization method ● agarose electrophoresis for separation of DNA ● Native PAGE for separation of proteins ● SDS PAGE for molecular weight determination; ● Discontinuous electrophoresis ● Other applications of electrophoresis: blotting techniques Southern, Northern, and Western 4.1.5 Isoelectric Focusing of protein	11	● Principals and Techiniques of Biochemistry and Molecular Biology 7th Ed Wilson Walker ● Analytical Biochemistry by David Holme	● Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.
	4.2 **Radioactivity-** Isotopes, Radioactive decay; Decay constant; Half-life; Measurement of radioactivity (principle)	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **FY BSc** SEMESTER:**II** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:The learners will be able to: Understand microbial growth,media required for growth, sterilization and disinfection techniques.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II **Unit III** **Microbiology II**	**3.1** Microbial Growth - Growth Curve, Mathematical expression, Synchronous growth, Generation time	4	1))Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd. 2)Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition.	Presentation/Videos

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	3.2 Culture media (N, C, Special requirements), Natural and Synthetic media	3	1)Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos
	3.3 Sterilization and Disinfection techniques	3	1)Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos

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	3.4 Physical Agent of sterilization - Temperature- Pressure (Hot Air Oven, Autoclave), Radiations (UV, Gamma) (examples with mechanism) Chemical agents of sterilization - Alcohol, Halogens, Formaldehyde	5	Stanier,Ingraham et al ,General Microbiology 4th & 5th Ed. 1987, Macmillan Education Ltd 6 2) Pelczar Michael J: Chan Jr.,E .C.S. , Krieg ,Noel R.; Microbiology TMH 5th Edition	Presentation/Videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **SY BSc** SEMESTER:**IV** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to : understand basic concepts of Pharmacology and be able to understand basic information about drugs like their sources , formulation types, administration route, their pharmacokinetics effect and their novel delivery system.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER – 3 UNIT – 2 Introduction of Pharmacology	Scope of pharmacology	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Sources, Classification, Chemical & physical properties of drug and Nomenclature of drugs	4	Essentials of Pharmacology - F. S. K Brar	White Board
	Dosage forms and routes of drug administration; Factors affecting dosage and drug delivery	3	Essentials of Pharmacology - F. S. K Brar	White Board
	Pharmacokinetics: LD 50, ED 50 Half Life, Loading dose, Maintenance dose (Explanation of terms only);Therapeutic index	3	Essentials of Pharmacology - F. S. K Brar	White Board

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	Novel Drug delivery system (NDDS)	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Transdermal and oral modes	1	Essentials of Pharmacology - F. S. K Brar	White Board
	Liposomes and nanoparticles	2	Essentials of Pharmacology - F. S. K Brar	White Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEVESH MACHHI** DEPARTMENT: **BIOCHEMISTRY**

CLASS: **T.Y BSc** SEMESTER:**VI** MONTH: **NOVEMBER-APRIL** ACADEMIC YEAR- **2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to:

- Learn about different tools used in bioinformatics and understand genome, proteome and nucleotide sequence analysis.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBCH603 UNIT II Bioinformatics	2.1 **Bioinformatics:** Definition, Aims and History of Bioinformatics Applications of Bioinformatics in – Sequence analysis, Molecular modeling and drug designing, Phylogeny/evolution, Ecology & population studies, Medical informatics and agriculture. Introduction to Genomics and Proteomics Databases- Definition & types – Public domain database, Sequence database, Structural database, Motif database, Genome database, Proteome database, Annotated sequence database. Full form & function in brief of - GenBank, EMBL, PIR, SWISS PROT, PDB, GDB. Sequence analysis Tools - Explain the following terms in brief-BLAST, FASTA, L-ALIGN, CLUSTAL- X & W, RASMOL, Software for protein sequencing - PROSPECT, AMMP,COPIA	15	• Principles and Techniques of Biochemistry and Molecular Biology, 4th edition.	Whiteboard method / Google meet, Youtube videos, Powerpoint presentation, online quiz.

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	(Explanation of the terms in brief) Micro-array analysis-concept and applications			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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FIRST TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Deepa Verma DEPARTMENT: Biochemistry CLASS: T.Y.B.Sc. Biochemistry
SEMESTER: **V** MONTH: June-October ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- To differentiate about different chromatographic techniques
- To understand chromatography as a separation technique.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit – IV	Chromatography: Principle, Theoretical plates	02	• Principles of Instrumental Analysis - by Douglas A. Skoog • An Introduction to Practical Biochemistry- by David Plummer	Lectures on Google Meet, PowerPoint, Youtube videos, Pdfs, Upload of learning material on Google Classroom
	Technique and Applications of the following kinds of chromatography : Partition chromatography (Paper)	03		
	Adsorption Chromatography (TLC and column)	04		
	Ion exchange chromatography and Gel filtration	01		
	Principle and applications of GLC, HPLC, HPTLC, Affinity chromatography,	03		
	Numerical problems based on above concept	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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SECOND TERM

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Deepa Verma DEPARTMENT: Biochemistry CLASS: T.Y.B.Sc. Biochemistry
SEMESTER: **VI** MONTH: November-April ACADEMIC YEAR: **2022-23**

LEARNING OBJECTIVE/S:

- The learner will learn the concept of diet management, nutrition at various stages of life and diseases related to diet.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit – II	Concepts like Balanced diet, Meal planning.	03	• Lehninger's- Principles of Biochemistry by David L. Nelson	Lectures on Google Meet, PowerPoint, Youtube videos, Pdfs, Upload of learning material on Google Classroom
	Nutrition during pregnancy, lactation, infancy, toddlerhood, preschool stage, school going children, and adolescence, adulthood and geriatric	07		
	Dietary Management in :- Obesity, Diabetes Mellitus, Hypertension, Peptic ulcer , Obstructive Jaundice	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr Amol Samant DEPARTMENT: Biotechnology CLASS: F.Y.B.Sc. SEMESTER: I

MONTH: Jun-Nov ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1. Experiments which proved DNA as a transforming element and RNA as a genetic material.

2. DNA repair mechanisms system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT106 **MOLECULAR BIOLOGY I** **UNIT I** **Chromosome structure, composition and packing**	The Composition and structure of DNA and RNA: Nucleotide and Nucleoside, Structure of nucleotides. Structure of DNA. DNA double helix – Watson and Crick's Model. Structure of RNA. Types of RNA. Organization of DNA in chromosome: Viral and Prokaryotic Chromosomes. Eukaryotic Chromosomes. Histone and Non-histone proteins. Nucleosome Structure. Packaging of DNA into chromosomes. Euchromatin and Heterochromatin. Centromeres and Telomeres Chromosome Banding Techniques. Karyotype and Idiogram	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Demo video

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USBT106 **MOLECULAR BIOLOGY I** **UNIT III** **Mutation and repair**	Definition and concept of Mutations: Classification of mutations Types of Point Mutations, Types of Spontaneous and induced mutations Mutagenesis and types of Mutagens. (Examples of Physical, Chemical and Biological Mutagens) DNA repair: Photoreversal, Base Excision Repair, Nucleotide Excision Repair, Mismatch Repair, SOS Repair.	15	Genetics - Peter A Textbook o f Russell 5th edition.	Ppt, Animation video

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______30___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V MONTH:

JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: INTRODUCE CONCEPT OF VACCINES ,IMMUNOPATHOLOGY AND ITS PERSPECTIVE IN ORGAN TRANSPLANTATION
The learners will be able to : DEVELOP BASIC UNDERSTANDING OF IMMUNOLOGY AND ITS PRACTICAL APPLICATION.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT IV- APPLIED IMMUNOLOGY	ANTIGEN ANTIBODY REACTION	05	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	ONLINE LECTURE
	VACCINES AND VACCINATIONS	05	KUBY IMMUNOLOGY	PRESENTATION
	TRANSPLANTATION IMMUNOLOGY	05		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc SEMESTER: V MONTH:

JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO FAMILIARIZE CELLULAR ARCHITECTURE AND ITS IMPORTANCE OF TISSUE TO VITAL ORGAN
The learners will be able to : APPRECIATE WELL ORGANIZED TISSUE AND CELL SYSTEM IN BODY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER III UNIT I	VERTICAL SECTION OF SKIN	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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MAMMALIAN HISTOLOGY	V.S OF TOOTH	02	TEXTBOOK OF HISTOLOGY GARTNER ,LESLIE	PRESENTATION
	T.S OF TOUNGE	02		
	T.S OF ALIMENTARY CANAL	05		
	T.S OF ASSOCIATED DIGESTIVE GLANDS	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: VI MONTH: DECEMBER - APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE CONCEPT OF HOMEOSTASIS – THERMOREGULATION AND OSMOREGULATION. The learners will be able to : SHALL COMPREHENDTHE ADAPTIVE RESPONSES OF ANIMALS TO ENVIRONMENTAL CHANGES FOR SURVIVAL.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II HOMEOSTASIS	HOMEOSTASIS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

	THERMOREGULATION	05		PRESENTATION
	OSMOTIC AND IONIC REGULATION	05		
		03		
		T03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: VI

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MONTH: DECEMBER – APRIL ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE LEARNER TO CHEMICAL AND MOLECULAR PROCESSES THAT AFFECT GENETIC MATERIAL
The learners will be able to : RECOGNIZE SIGNIFICANCE OF MOLECULAR BIOLOGY AND DNA REPAIR MECHANISM.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT I MOLECULAR BIOLOGY	TYPES OF MUTATION	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	INDUCED MUTATION	04		PRESENTATION
	DNA REPAIR MECHANISM	03		
	EUKARYOTIC GENE EXPRESSION	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: **ZOOLOGY**
CLASS: **S.Y.B.Sc (ZOOLOGY)** SEMESTER: **III** MONTH: **JULY - OCTOBER** ACADEMIC YEAR: **2022-2023 LEARNING OBJECTIVE/S**: INTRODUCE CLASSICAL EXPERIMENT FOR PROVING DNA AS A GENETIC MATERIAL AND STRUCTURES OF NUCLEIC ACIDS ALONGWITH CENTAL DOGMA THEORY
The learners will be able to : IMPORTANCE OF NUCLEIC ACID AND APPRECIATE GENE REGULATION ACTIVITY

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-III, NUCLEIC ACIDS	GENETIC MATERIAL	7	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES GENETICS - GARDNER	POWERPOINT PRESENTATION /ONLINE LECTURES
	FLOW OF GENETIC INFORMATION IN EUKARYOTIC CELL	5		
	GENE EXPRESSION AND REGULATION	3		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANUSHRI KINI DEPARTMENT: ZOOLOGY CLASS: S.Y,BSc. SEMESTER: IV MONTH: DEC-FEB
ACADEMIC YEAR: 2022-2023 LEARNING OBJECTIVE/S: STUDY STRUCTURAL AND FUNCTIONAL ORGANIZATION OF CELL
The learners will be able to : ACQUIRE INSIGHT OF TRANSPORT MECHANISM FOR COMPOSITION AND MAINTAINANCE OF CELL.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II -.U.I	INTRODUCTION TO CELL BIOLOGY	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE

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CELL BIOLOGY			ZOOLOGY	LECTURES
	NUCLEUS	5		
	PLASMA MEMBRANE	4		
	TRANSPORT ACROSS MEMBRANE	2		
	CYTOSKELETAL STRUCTURE	2		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER:V

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Learners will get insights of diagnostic techniques.
The learners will be able to : ___Understand various techniques involved in blood analysis and pathology studies. ___

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied Hematology	Scope of Applied Hematology	1	University textbook. Textbook of Pathology by Godkar	Chalk and Board and PPT
	Microscopic examination of blood: Blood cancer, Infectious disease and Haemoglobinopathies	4		Chalk and Board and PPT
	Coagulopathies	2		Chalk and Board and PPT
	Biochemical examination: liver functions, Kidney functions, Carbohydrate metabolism amd Hormone analysis.	8		Chalk and Board and PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER: V

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be learning the pathophysiology od various diseases.
The learners will be able to : The learners will be able to understand the root cause of any disease and its precautionary measures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
General Pathology	Introduction	1	University textbook and Textbook on Pathology	Chalk and Board and PPT
	Cell Injury	3		Chalk and Board and PPT
	Retrogressive changes	3		Chalk and Board and PPT
	Disorders of Pigmentation	3		Chalk and Board and PPT
	Necrosis	3		Chalk and Board and PPT Chalk and Board and PPT

	Gangrene	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: F.Y.BSc. SEMESTER: II

MONTH: JANUARY- APRIL ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will study the impact of stress and infectious disease.
The learners will be able to : The learners will be able to understand stress related problem and develop a strong mind set. They will understand the causes of infectious diseases and its precautionary measures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Stress related disorder: Diabeters, BP, Anxiety, Insomania	6	University Textbook	Chalk and Board and PPT

Common	Communicable and Non-Communicable disorders: TB, Typhoid, Hepatitis A and B, AIDS, Gonorreah, Asthama, Bronchitis, Oral Cancer.	9	Textbook on Pathology	Chalk and Board and PPT
Diseases				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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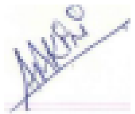

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: S.Y.BSC. SEMESTER: IV MONTH: _NOVEMBER-MARCH ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S: The learners will study the ultrastructure of cell organelles.
The learners will be able to : The lerners will be able to understand the intricate and complex functioning of the cell.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**

	Introduction to Endomembrane system	1		Chalk and Board and PPT
	Endoplamic Reticulum: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT
ENDO MEMBRANE	Golgi Complex: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT
SYSTEMS	Lysosomes: Origin, Occurrence, Morphology and Functions.	3		Chalk and Board and PPT

Mitochondria: Origin, Occurrence, Morphology and Functions.Marker Enzymes, Biogenesis Semiautonous nature of Mitochondria

5

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __15________

Chalk and Board and PPT

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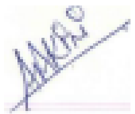

SIGNATURE OF THE H.O.D.

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: T.Y.BSc. SEMESTER: VI

MONTH: _JUNE-SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will study the various aspects oif Enzyme Biochemistry.
The learners will be able to : The learners will be able to understand the structure and functions and kinetics of Enzymes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ENZYMOLOGY	Introduction and Nomemclature	2	Biochemistry by Leininger	Chalk and Board and PPT
	Enzyme action and Kinectics	5	Biochemistry by Satyanarayana	Chalk and Board and PPT
	Enzyme Inhibition	3	University Textbook	Chalk and Board and PPT
	Regulation of Enzyme Activity	3		
	Industrial Applications of Enzymes	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.SMITA SUBRAMANIAN DEPARTMENT: ZOOLOGY CLASS: SEMESTER: ___6___________ MONTH: _NOVEMBER-MARCH ACADEMIC YEAR: 2022-23

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LEARNING OBJECTIVE/S: The learners will study various aspects of Genetic Disorders
The learners will be able to : The learners will be aware about the impact and changes that takes at gene level.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
HUMAN GENETICS	Non- Disjunction during Mitosis and Meiosis	7	Diagnostic Regcognition of Genetic Disorders.	Chalk and Board and PPT
	Genetic Disorders	5		Chalk and Board and PPT Karyotypes
	Diagnosis	3		Chalk and Board and PPT

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY **DEPARTMENT**: ZOOLOGY CLASS: __FYBSC SEMESTER: I MONTH: July

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To know about the Hoarded wealth of the marvelous animal world and thereby enhance their interest and knowledge in the subject of zoology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	Echolocation in bats and cetaceans; Mechanism of pearl formation in Mollusca.	3	University Text book for FYBSc.	Power point presentation
	Bioluminiscence in animals; Regeneration in animals	3	University Text book for FYBSc.	Power point presentation
	Mimicry in butterfly and its significance; mechanism of coral formation.	3	University Text book for FYBSc.	Power point presentation
	Bird Migration; adaptive features of desert animals	3	University Text book for FYBSc.	Power point presentation
	Breeding and parental care in Pisces and Amphibians	3	University Text book for FYBSc.	Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: __FYBSC SEMESTER: II MONTH: November

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : _______Understand the current status of wildlife in India from different relevant governing agencies vis-a vis with adversity of poaching and biopiracy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-3	Concept of endangered and criticaly endangered species using examples of Indian wildlife with respect to national parks and wildlife sanctuaries of India.	5		Power point presentation
	Management statergies with special respect to Tiger and Rhinoceros in India.	4		Power point presentation
	Ecotourism	3		Chalk and board method/ Power point presentation
	Biopiracy	3		Chalk and board method/ Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: __SYBSC SEMESTER: III MONTH: July

ACADEMIC YEAR: _2021-2022

LEARNING OBJECTIVE/S:
The learners will be able to : Know how animals interact with each other and their surroundings and they will be able to understand different behavioral patterns

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3, UNIT-1	Introduction to Ethology	4		Chalk and board method/ Power point presentation
	Aspects of animal behaviour	6		Chalk and board method /Power point presentation
	Social behaviour	5		Chalk and board method/ Power point presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY   DEPARTMENT: ZOOLOGY   CLASS: SYBSC   SEMESTER: IV   MONTH: November

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Get a panoramic view of the impact of human activities leading to pollution and its implication.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-3, UNIT-1	Air pollution	3		Chalk and board method
	Water pollution	3		Chalk and board method
	Soil pollution	3		Chalk and board method
	Noise pollution	1		Chalk and board method
	Radioactive pollution	1		Chalk and board method
	Solid waste pollution	2		Chalk and board method
	Pollution Climate change and global warming	2		Chalk and board method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: __TYBSC SEMESTER: V MONTH: July

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S:
The learners will be able to apprehend the basis of classification and modern classification up to the class of lower invertebrate animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	Levels of organization	03		Chalk and board method
	Symmetry	02		Chalk and board method
	Coelom and metamerism	02		Chalk and board method
	Taxonomy	04		Chalk and board method/Powerpoint presentation
	Kingdom Protista	04		Chalk and board method/Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: V MONTH: July

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to understand the various types of epidermal and dermal derivatives along with their function.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Basic structure of integument	03		Chalk and board method/ Powerpoint presentation
	Epidermal derivatives of vertebrates	04		Chalk and board method/ Powerpoint presentation
PAPER-IV, UNIT-1	Dermal derivatives of vertebrates	04		Chalk and board method /Powerpoint presentation
	Special derivatives of integument	04		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: VI MONTH: NOVEMBER

ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S To introduce basic concepts of modern Chordate classification with evolution point of view and to understand the concept of taxonomy in higher animal kingdom.
:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-I, UNIT-1	General characters,difference between non chordates and chordates, Origin of chordates.	5		Chalk and board method
	Protochordata	5		Chalk and board method
	Group Euchordata	5		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JOHNSON VARKEY DEPARTMENT: ZOOLOGY CLASS: TYBSC SEMESTER: VI MONTH: NOVEMBER

ACADEMIC YEAR: _2022-23

LEARNING OBJECTIVE/S: To introduce learners to zoogeographic distribution(present and past) of animal species.
To introduce learners to various ways of animal distribution.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV, UNIT-IV	Introduction:Plate tectonics and continental drift theory.	4		Chalk and board method
	Animal distribution and barriers	5		Chalk and board method/ Powerpoint presentation
	Zoogeographical realms	6		Chalk and board method/ Powerpoint presentation

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap.
The learners will be able to: Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT I- Laboratory safety, Units and Measurement	INTRODUCTION TO GOOD LABORATORY PRACTICES	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	USE OF SAFETY SYMBOLS	03		PRESENTATION
	UNITS OF MEASUREMENT	09		CHALK AND BOARD

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : To Introduce basic terms of genetics & to study Mendelian principles of inheritance and other forms pattern of inheritance.

The learners will be able to : Understand and apply the principles of inheritance. Understand the concept of multiple alleles, linkage and crossing over

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER I UNIT I- FUNDAMENTALS OF GENETICS	Introduction to genetics	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	Mendelian Genetics	08		CHALK AND BOARD
	Multiple Alleles and Multiple Genes	03		CHALK AND BOARD
	Linkage and Crossing Over	02		CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
To introduce the topic of immunology by emphasizing the basic concepts to build a strong foundation and to give an overview of the immune system that plays an important

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role in disease resistance.
The learners will be able to : *The learner shall comprehend the types of immunity and the components of immune system. The learner will realize the significant role of immune system in giving resistance against diseases.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III- BASIC IMMUNOLOGY	Overview of Immunology	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	Cells and Organs of immune system	04		PRESENTATION
	Antigens	04		PRESENTATION
	Antibodies	04		CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: II MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
TO FACILITATE THE LEARNING OF POPULATION ECOLOGY,ITS DYNAMICS AND REGULATORY FACTORS IMPORTANT FOR ITS SUSTENANCE
The learners will be able to : THE UNIT WOULD ALLOW LEARNERS TO STUDY ABOUT NATURE OF ANIMAL POPULATION ,SPECIFIC FACTORS

AFFECTING ITS GROWTH AND ITS IMPACT ON THE POPULATION OF OTHER LIFE FORMS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SONAL SALVI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To develop the learner's knowledge and understanding of genetic variability within a population and how the change in the gene pool leads to evolution of species.

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : The learner shall understand the types and secretions of endocrine glands and their functions and their disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

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NAME OF THE STAFF: DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: NOV ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Learner will understand the paradigms of discovery and commercialization of biological resources and knowledge gained by self-medication by animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL RAMESH DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **V** MONTH: **JUNE** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S:
The learners will be able to : To sensitize learner regarding the various threats to the wildlife. To introduce learner various way that can help in the protection, conservation, management and enhancement of wildlife populations and habitat.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II -WILDLIFE MANAGEMENT	2.1 HABIT, HABITAT, TERRITORY AND NICHE OF WILD ANIMALS	03	UNIVERSITY TEXTBOOK	PRESENTATION
	2.2 THREATS TO WILDLIFE	05		CHALK AND DUSTER
	2.3 WILDLIFE CONSERVATION	07		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **S.Y,BSc.** SEMESTER: **IV** MONTH: **NOV** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: TO INTRODUCE THEM WITH THE BASIC KNOWLEDGE OF RESEARCH, SCIENTIFIC WRITING AND IT'S METHODOLOGY

The learners will be able to : UNDERSTAND THE WAYS AND METHODS OF WRITING A RESEARCH PAPER, TYPES OF RESEARCH AND THE ETHICS RELATED TO SCIENTFIC RESEARCH AND ITS WRITING

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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P-I.U.III RESEARCH METHODOLGY AND SCIENTIC WRITING	RESEARCH, DEDUCTIVE REASONING.INDUCTIVE REASONING	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
	TYPES OF RESEARCH ,7C'S RULE,RESEARCH METHODOLOGY	3		THESIS AND ABSTRACT FOR REFERNCE
	SCIENTIFIC WRITING. TYPES OF WRITING ABSTRACT WRITING,MONOGRAPH,REVIEW WRITING,POSTER PRESENTATION	4		POSTER AND PRESENTATIONS FOR REFERNCE
	BIBLIOGRAPHY ,TYPES OF PRESENTATION, USE OF COMPTER IN RESEARCH	3		
	PLAGIARISM.ETHICS IN RESEARCH	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY**

CLASS: **F.Y,BSc.** SEMESTER: **II** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S: TO EXPLAIN THE COMPONENTS OF ECOSYSTEM AND HOW ECOSYSTEM IS ESSENTIAL FOR SURVIVAL OF ANIMALS

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The learners will be able to : UNDERSTAND THE IMPORTANCE OF ECOSYSTEMAND VARIOUS FAUNA BEING EXTINCT BECAUSE OF INTERUPTING OF HUMAN BEING

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
PAPER II UNIT III COMMON HUMAN DISEASE		2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
		4		PRESENTATION
		4		
		2		
		3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _**SONAL RAMESH DANDGE** DEPARTMENT: **ZOOLOGY** CLASS: **T.Y.Bsc** SEMESTER: **VI** MONTH: **APRIL-MAY**

ACADEMIC YEAR:**2022-23**

LEARNING OBJECTIVE/S: TO INTRODUCE THE LEARNER VARIOUS NATURAL RSOURCES ,THEIR EXPLOITATION AND HOW GOVERNMENT PLAYS AN IMPORTANT ROLE TO IMPLIMENT VAROIUS LAWS
The learners will be able to : UNDERSTAND DIFFERENT FACTORS AFFECTING ENVIRONMENT AND NEED TO UNDERSTAND VAROIUS LAWS ANGAINST GOVERONMENT FOR EXPLOITATION.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
APPLIED COMPONENT	NATURAL RESOURCES AND THEIR CLASSIFICATION	2	ENVIRONMENTAL BIOLOGY BY P.S. VERMA	CHALK AND DUSTER PRESENTATION
	EXPLOITATION AND MODIFICATION OF NATURAL RESOURCES	2		
	SUSTAINABLE DEVELOPMENT	3	UNIVERSITY TB FOR COURSE BY BOARD OF	

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			STUDIES ZOOLOGY	
	WASTE MANAGEMENT, WATER MANAGEMENT	4		
	LAWS GOVERNING ENVIRONMENT	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT- 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **SONAL DANDGE** DEPARTMENT: **ZOOLOGY** CLASS: **S.Y.B.sc** SEMESTER: **III** MONTH: **DEC-FEB**

ACADEMIC YEAR:**2022-2023**

LEARNING OBJECTIVE/S: TO INTRODUCE CONCEPT OF PARASITISM , MODES OF TRANSMISSION OF PARASITES AND PRECAUTIONS TO PREVENT DISEASES
The learners will be able to : _TO UNDERSTAND VARIOUS PARASITES, THEIR LIFE CYCLE, THE SYMPTOMS OF THE DISEASE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER 3, UNIT II PARASITOLOGY	INTRODUCTION TO PARASITOLOGY AND TYPES OF PARASITES	2	PARASITOLOGY BY SHARMA	CHALK AND DUSTER PRESENTATION
	HOST PARASITE RELATIONSHIP, HOST SPECIFICITY	3	PARASITOLOGY BY CHATTERJEE .K.D	
	LIFE CYCLE, PATHOGENECITY, CONTROL MEASURES AND TREATMENT OF THE FOLLOWING PARASITES Entamoeba histolytica, Faciola hepatica, Taenia solium, Wucheria bancrofti	4	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	
	MORPHOLOGY,LIFE CYCLE, PATHOGENECITY,CONTROL MEASURES AND TREATMENT OF THE FOLLOWING PARASITES HEAD LOUSE, MITE, BED BUG	3		
	PARASITOLOGICAL SIGNIFICANCE	3		

TOTAL NUMBER OF LECTUES ALLOCATED TO THE UNI

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To orient learner about rich heritage of Biodiversity of India and make understand significance of its conservation.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II BIODIVERSITY AND ITS CONSERVATION	INTRODUCTION AND LEVELS TO BIODIVERSITY	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	BIODIVERSITY HOTSPOT	03	BIODIVERSITY – S.CHAND PUBLICATION	PRESENTATION
	VALUES OF BIODIVERSITY	03		
	THREATS OF BIODIVERSITY	03		
	CONSERVATION AND ITS MANAGEMENT	03		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the concepts of physiology of nutrition, excretion and osmoregulation. To expose the learners to various nutrition apparatus, excretory and osmoregulatory struct

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPERII UNIT I NUTRITION AND EXCRETION	EXCRETION APPARATUS ,PHYSIOLOGY	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	PROCESS AND COMPARATIVE STUDY	03		PRESENTATION
	NUTRITION TYPES AND PROCESS	04		CHARTS
	COMPARATIVE STUDY	03		

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	PHYSIOLOGY	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To acquaint learners with the details of Sepia as a representative of invertebrate animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT IV TYPE STUDY SEPIA	GENERAL CHARACTERISTICS AND CLASSIFICATION	02	INVERTEBRATE BY KOTPAL	CHALK AND BOARD

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	DIGESTIVE SYSYTEM ,REPRODUCTIVE SYSTEM	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	EXCRETORY SYSTEM	03		CHARTS
	NERVOUS SYSTEM	02		
	CIRCULATORY SYSTEM	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: II MONTH: NOV ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S:
The learners will be able to : Learners will be able to promptly recognize stress related problems at initial stages and would be able to adopt relevant solutions which would lead to psychologically strong mind set promoting positive attitude important for academics and would be able to acquire knowledge of cause, symptoms and precautions of infectious diseases.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III COMMON HUMAN DISEASE	STRESS RELATED DISORDER – SYMPTOMS, EFFECTS,CAUSES, PREVENTION,REMEDY	07	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	CHALK AND BOARD
	COMMUNICABLE AND NON COMMUNICABLE DISEASE – SYMPTOMS, EFFECTS,CAUSES, PREVENTION,REMEDY	07		PRESENTATION
				CHARTS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To develop learner's knowledge and understanding of genetic variability within a population and how the change in the gene pool leads to evolution of species.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPERII- POPULATION GENETICS AND EVOLUTION	INTRODUCTION TO POPULATION GENETICS,BRIEF EXPLANATION OF TERM OF GENETICS	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	HARDY WEINBERG LAW,FACTORS AFFECTING LAW	04		PRESENTATION
	PATTERN OF NATURAL SELECTION	04		CHARTS
	SPECIES CONCEPT AND SPECIEATION AND ISOLATION MECHANISM	03		

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	EVOLUTIONARY GENETICS	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce to the learner the details of endocrine glands and its disorders.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT III ENDOCRINOLOGY	INTRODUCTION TO ENDOCRINOLOGY AND TYPES OF GLANDS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	ENDOCRINE SYSTEM,AND ITS MECHANISM	02	TEXTBOOK OF ENDOCRINOLOGY – WILLIAMS	PRESENTATION
	CLASSIFICATION AND PROPERTIES OF HORMONE, MECHANISM OF HORMONES ACTION	04		CHARTS

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	HISTOLOGY,FUNCTIONS AND DISORDERS OF PITUITARY,THYROID	04		
	PARATHYROID,PANCREAS AND ADRENAL	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ANKITA PATIL DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the learner to the concepts of bioprospecting and zoopharmacognosy. To introduce learner with various ethological aspects by which non-human animals
apparently self-medicate themselves.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER IV UNIT III BIOPROSPECTING AND ZOOPHARMACOGNOSY		03	UNIVERSITY TEXTBOOK BY	

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	INTRODUCTION TO BIOPROSPECTING		BOARD OF STUDIES	
	TYPES OF BIOPROSPECTING	03		PRESENTATION
	CONSERVATION – ADVANTAGE AND DISADVANTAGE , INTRODUCTION TO ZOOPHARMACOGNOSY	03		CASE STUDIES
	SELF MEDICATION AND ITS MECHANISM	03		
	APPLICATION AND ITS CONTRIBUTION	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:F.Y.B.Sc SEMESTER: I MONTH: SEPTEMBER- JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO AQUAINT LEARNERS TO STUDY THE MODERN DEVELOPMENT IN FIELD OF ZOOLOGY WITH RESPECT TO ITS APPLICATION FOR BENEFITS TO HUMAN AND WORLD

The learners will be able to : HELP YOUNG MINDS THINK OUT OF THE BOX WITH RESPECT TO NEW DEVELOPMENT BENIFITING THE HUMANS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II UNIT II- ANIMAL BIOTECHNOLOGY	INTRODUCTION TO BIOTECHNOLOGY , SCOPE AND ACHIEVEMENTS	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	TRANSGENESIS,CLONING	04	BIOTECHNOLOGY– SATYANARAYAN & CHAKRAPANI	PRESENTATION
	ETHICAL ISSUES	03		
	DNA FINGERPRINTING AND GENE THERAPY	04		
	GREEN GENES	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc SEMESTER: III

MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO UNDERSTAND THE BASICS OF GENETICS WITH RESPECT TO SEX DETERMINATION AND ITS PURPOSE
The learners will be able to : TO CORRELATE WITH THE GENETIC DISORDER WITH THE STRUCTURE OF CHROMOSOME,NUMBER OF CHROMOSOME AND SEX DETERMINATION

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- CHROMOSOME AND HEREDITY	TYPES , STRUCTURE AND CLASSIFICATION OF CHROMOSOMES	04	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES
	SEX DETERMINATION – HORMONAL ,TEMPERATURE AND CHROMOSOMAL	04	GENETICS - FAIRBANK	PRESENTATION
	SEX LINKED INHEITANCE	02	GENTEICS – MANGE AND MANGE	

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	SEX LIMITED INHERITANCE	02		
	SEX INFLUENCED INHERITANCE	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V

MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO COMPREHEND THE GENERAL CHARACTERS AND CLASSIFICATION OF KINGDOM ANIMALIAE FROM PORIFERA TO NEMATODA AND SPECIFIC CHARACTERS OF ORGANISMS BELONGING TON THESE PHYLA
The learners will be able to : FAMILIARIZING WITH CLASSIFICATION AND ABLE TO IDENTIFY ANIMAL IN HABITAT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- KINGDOM ANIMALIA I	GENERAL CHARARCTERS	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES INVERTEBRATE ZOOLOGY – R.L.KOTPAL	POWERPOINT PRESENTATION /ONLINE LECTURES
	PHYLUM PORIFERA – CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		PRESENTATION

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	PHYLUM CNIDARIA CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		LIVE ANIMALS
	PHYLUM PLATYHELMINTHES CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		
	PHYLUM NEMATODA CHARACTERS ,CLASSSIFICATION AND EXAMPLE	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 16

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA ASHOK OZA DEPARTMENT: ZOOLOGY CLASS:T.Y.B.Sc SEMESTER: V MONTH: JULY - OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO INTRODUCE PRINCIPLE OF TOXICOLOGY WITH RESPECT TO TOXIC RESPONSE ,NATURE AND ITS EFFECTS IN TOXICITY TESTING AND ITS REGULATORY AFFAIRS

The learners will be able to : BROAD UNDERSTANDING IN THE FIELD HELPING STUDENT PREPARE FOR EMPLOYMENT IN PHARMACEUTICAL INDUSTRY AND RELATED ARENAS.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III UNIT II- TOXICOLOGY	INTRODUCTION,PRINCIPLE AND SCOPE TO TOXICOLOGY ,	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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	TOXINS AND TOXICANTS , CONCEPT OF LC50,LD50,ED50	04	FUNDAMENTALS OF TOXICOLOGY – KAMLESHWAR PANDEY & J .P.SHUKLA	PRESENTATION
	CHARACTERS OF EXPOSURE	02		
	TYPES AND ROUTES OF TOXICITY	04		
	DOSE RESPONE RELATIONSHIP AND TARGET ORGAN TOXICITY	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **BHUMIKA ASHOK OZA** DEPARTMENT: **ZOOLOGY**
CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **VI** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**
LEARNING OBJECTIVE/S: TO INTRODUCE THEM WITH CHORDATE CLASSIFICATION WITH POINT OF EVOLUTION AND UNDERSTAND THE CONCEPT OF TAXONOMY.
The learners will be able to : UNDERSTAND PHYLOGENY AND SPECIAL FEATURES ALONGWITH TAXONOMY UPTO CLASS OF CHORDATES

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I, U-II, GROUP EUCHORDATA II	DIVISION GNATHOSTOMATA	3	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	POWERPOINT PRESENTATION /ONLINE LECTURES

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	DIPNOI	5	CHORDATES BY JORDAN AND VERMA	LIVE ANIMALS
	SUPERCLASS TETRAPODA	5	CHORDATE ZOOLOGY BY R.L.KOTPAL	PHOTOGRAPHS

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA OZA DEPARTMENT: ZOOLOGY
CLASS: S.Y,BSc. SEMESTER: IV MONTH: DEC-MARCH ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: TO IMPART SCIENTIFIC KNOWLEDGE TO THE LEARNERS ABOUT HOW LIFE ORIGINATED AND EVOLVED ON OUR PLANET
The learners will be able to : GAIN INSIGHT ABOUT ORIGIN OF LIFE AND ITS DIFFERENT THEORIES.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-I.U.I ORIGIN AND EVOLUTION OF LIFE	INTRODUCTION THEORY FOR ORIGIN OF LIFE	3	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY BBC WORLD FACTS AND DISCOVERY VIDEOS	ONLINE LECTURES
	EVIDENCES IN NFAVOUR OF ORGANIC EVOLUTION	5		YOU TUBE VIDEOS
	THEORIES OF ORGANIC EVOLUTION	5		POSTER AND PRESENTATIONS FOR REFERNCE
				DISCOVERY PLUS SERIES

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BHUMIKA OZA DEPARTMENT: ZOOLOGY
CLASS: F.Y,BSc. SEMESTER: II MONTH: FEB – APRIL ACADEMIC YEAR: 2022-2023
LEARNING OBJECTIVE/S: TO EXPLAIN THE SOURCE AND IMPORTANCE OF HEALTHY MIND, BODY AND DIETARY HABITS.
The learners will be able to: UNDERSTAND THE IMPORTANCE OF GOOD DIETARY HABITS AND LEAD A HEALTHY LIFESTYLE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
P-II, U-II, HUMAN HEALTH AND DISEASE	BALANCED DIET AND NUTRITION AND DIET CHART	2	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY	CHALK AND DUSTER
	MALNUTRITION DISORDERS – CAUSES,SYMPTOMS,PRECAUTION AND REMEDIES	5		BMI STUDY BY ASSIGNMENT AND PROJECT
	LIFESTYLE DISORDERS- CAUSES, SYMPTOMS, PRECAUTION AND REMEDIES	5		
	SIGNIFICANCE OF BREAST FEEDING AND BREASTMILK,DIETARY FIBRES	2		

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	BMI	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **BHUMIKA ASHOK OZA** DEPARTMENT: **ZOOLOGY**
CLASS: **T.Y.B.Sc (ZOOLOGY)** SEMESTER: **VI** MONTH: **DEC-FEB** ACADEMIC YEAR: **2022-2023**
LEARNING OBJECTIVE/S: UNDERSTAND DIFFERENT FACTORS AFFECTING THE ENVIRONMENT AND VARIOUS METHODS TO IMPROVE ENVIRONMENTAL STEWARDSHIP
The learners will be able to :UNDERSTAND DIFFERENT IMAPCT ,FACTOTRS AND LAWS REGARDING ENVIRONMENT

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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P-IV ,U-I, ENVIRONMENT MANAGEMENT	NATURAL RESOURCES AND THEIR CLASSIFICATION	3	UNIVERSITY TB FOR COURSE BY BOARD OF STUDIES ZOOLOGY CSIR REFERENCE BOOK-PATHFINDER ENVIRONMENTAL SCIENCE BY THAKUR INDUSHEKHAR AND S CHAND PUBLICATION	POWERPOINT PRESENTATION /ONLINE LECTURES
	EXPLOITATION AND MODIFICATION OF NATURAL RESOURCES	4		YOUTUBE VIDEOS
	WATER MANAGEMENT	2		NEWSPAPER CASE STUDIES
	WASTE MANAGEMENT	4		
	ACTS AND RULES OF ENVIRONMENTAL MANAGEMENT	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ______________________________DEPARTMENT: ________________ CLASS: ____________SEMESTER: __________MONTH: __________ ACADEMIC YEAR:______________
LEARNING OBJECTIVE/S:
The learners will be able to :
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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc, SEMESTER: 5

MONTH: JUNE- OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To introduce the learner to the basics of developmental biology with reference to chick as a model and also familiarize with experiments related to it.*

The learners will be able to :*Learner will be able to understand the processes involved in embryonic development and practical applications of studying the chick embryology.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:4 UNIT:4 TITLE:Developmental biology of Chick	Introduction to Developmental Biology:	1	DEVELOPMENTAL BIOLOGY BY GILBERT	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	Structure of Hen's egg, physico-chemical nature and forms of yolk- granular, platelets and spheres; fertilization, cleavage, blastulation, gastrulation	3	DEVELOPMENTAL BIOLOGY OF CHICK BY PATTEN	2)Teaching resources: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Structure of chick embryo – 18 hou rs, 24 hou rs, 33 hou rs, 48 hou rs and 72 hou rs	8	CHORDATE ZOOLOGY BY JORDAN	
	Extra embryonic membranes	2		
	Organizer: Introduction, Spemann Mangold experiment, Hensen's node as an organizer	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SHWETA SURESH SHAHASANE DEPARTMENT: Zoology

CLASS: :F.Y.B.Sc. SEMESTER: 1 MONTH: JUNE -OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To make learners aware of risks involved in handling of different hazardous chemicals, sensitive (electrical/electronic) instruments and infectious biological specimens especially during practical sessions in the laboratory and to train them to avoid mishap*

The learners will be able to : *Learners would work safely in the laboratory and avoid occurrence of accidents (mishaps) which will boost their scholastic performance and economy in use of materials/chemicals during practical sessions.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:2 UNIT:1 TITLE: INSTRUMENTATION	**Introduction to good laboratory practices**	1	Methods in Biostatistics – B. K. Mahajan	1)Teaching methods:Questions, Peer learning by making buzz groups of students,role play,debate,case-study,problem solving and decision making strategy
	Use of safety symbols : meaning, types of hazards and precautions	2	A Manual of Medical Laboratory Technology -A. H. Patel	2) learning resources: textbook,pictures and A.V. , Internet.
	Calculations and related conversions of each: Metric system- length(meter to micrometer); weight (gram to microgram), Volumetric (Cubic measures)	1	Calculations in Molecular biology and Biotechnology - Frank H. S tephenson	

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	Temperature: Celsius, Fahrenheit, Kelvin	1	Text Book of Zoology, F.Y.B.Sc. Semester I Course 2	
	Concentrations : Percent solutions, ppt, ppm, ppb dilutions,Normality, Molarity and Molality.	2		
	Biostatistics: Introduction and scope, Sampling and its types, Central Tendencies (mean, median, mode) Tabulation, Graphical representations (Histograms, bar diagrams, pie diagrams)	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY

CLASS:F.Y. B. Sc. SEMESTER: 2 MONTH:December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To impart knowledge of different components of ecosystem and educate about essentials of coexistence of human beings with all other living organisms*

The learners will be able to : *Learners will grasp the concept of interdependence and interaction of physical, chemical and biological factors in the environment and will lead to better understanding about implications of loss of fauna specifically on human being, erupting spur of desire for conservation of all flora and fauna*

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:Ecology and Wildlife Management. Unit: 2 TITLE: Ecosystem	Ecosystem - Definition and components	2	Fundamentals of Ecology - Eugene P. Odum	1)Teaching methods:Questions, Peer learning by making buzz groups of students,role play,debate,case-study,problem solving and decision making strategy.
	Biogeochemical cycles (Water, Oxygen, Nitrogen, Sulphur)	2	Fundamentals of Ecology - M. C. Dash	2) learning resources: textbook,,A.V. program, Internet,POWERPOINT PRESENTATION, YOUTUBE VIDEOS.
	Fresh water ecosystem – Lentic and Lotic	2	Ecology - Mohan P. Arora	
	Food chain and food web in ecosystem (Fresh water and Grass land)	3	Ecology and Environment - Sharma P. D	
	Ecological pyramids - energy, biomass and number	2	Ecology : Principles and Applications - Chapman J.L	
	Animal interactions (commensalism, mutualism, predation, antibiosis, parasitism)	3	Ecology - Subramaniam	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS:S.Y.B.Sc

SEMESTER:3 MONTH: JUNE- OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: *To disseminate information on economic aspects of zoology like apiculture, vermiculture, dairy science. To encourage young learners for selfemployment.*

The learners will be able to : *Learners would gain knowledge on animals useful to mankind and the means to make the most of it. Learners would learn the modern techniques in animal husbandry. Learners would be pursuing entrepreneurship as careers*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER:3 UNIT:3 TITLE:Economic Zoology	**APICULTURE:Methods of bee keeping and management** **Economic importance**	5	Economic Zoology- Biostatistics and Animal behaviour	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	VERMICULTURE:Rearing methods, management and economic importance	4	Economic Zoology- Shukla G.S	2)Teaching resources: LIVE SPECIMEN , A.V., TEXTBOOK , MANNUALS, INTERNET , PICTURES, CHARTS, POWER POINT PRESENTATIONS AND YOUTUBE VIDEOS .ONLINE WORSHOPS
	DAIRY SCIENCE:Dairy development in India **Dairy Processing** **Milk and milk products**	6	A handbook on Economic Zoology, S.Chand	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___15_______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE _ DEPARTMENT: ZOOLOGY CLASS: S.Y.B.Sc. SEMESTER: IV

MONTH: DECEMBER TO MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : acquaint the key concept of embryology

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:Comparative Embryology ,Aspect of Human Reproduction, Pollution and its effect on organisms UNIT:1 TITLE:Comparative Embryology.	1)Types of Eggs-Based on amount and distribution of yolk.	2	1)Developmental Biology by Gilbert.	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	2)structure and types of sperms	1	2)Developmental Biology by Berri and Tata Mc Craw.	2)Teaching resources: Clay models , A.V., PowerPoint presentations
	3)Types of cleavage- Holoblastic and Meroblastic	1	3)Chick Embryology by Pattern	
	4)Types of blastulae	1	4)Chordate Embryology by Verma and Tyagi.	

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	5)Gastrulation	2	5)Chordate Zoology by Jordan	
	6)Coelom -formation and types	2		
	7)Extra embryonic membranes	6		
	8)Types of placentae -Based on histology,morphology and implantation.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____15_____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc,

SEMESTER: 5 MONTH: JUNE- OCTOBER ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S: *To introduce the learner to the basics of developmental biology with reference to chick as a model and also familiarize with experiments related to it.*

The learners will be able to :*Learner will be able to understand the processes involved in embryonic development and practical applications of studying the chick embryology.*

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER:4 UNIT:4 TITLE:Developmental biology of Chick	Introduction to Developmental Biology:	1	DEVELOPMENTAL BIOLOGY BY GILBERT	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method

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	Structure of Hen's egg, physico-chemical nature and forms of yolk-granular, platelets and spheres; fertilization, cleavage, blastulation, gastrulation	3	DEVELOPMENTAL BIOLOGY OF CHICK BY PATTEN	2)Teaching resources: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Structure of chick embryo – 18 hou rs, 24 hou rs, 33 hou rs, 48 hou rs and 72 hou rs	8	CHORDATE ZOOLOGY BY JORDAN	
	Extra embryonic membranes	2		
	Organizer: Introduction, Spemann Mangold experiment, Hensen's node as an organizer	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA SURESH SHAHASANE DEPARTMENT: ZOOLOGY CLASS: T.Y. B.Sc,

SEMESTER: 6 MONTH: DECEMBER- MARCH ACADEMIC YEAR:2022-2023

LEARNING OBJECTIVE/S: To acquire knowledge of the various aspects of diseases affecting fishes

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER: applied component UNIT:4 TITLE: Diseases	Viral diseases, prophylaxis and preventive measures	5L	Text Book of Fish Biology and Indian Fisheries by Dr. R. P. Parihar, Central Pub. House, Allahabad.	1)TEACHING METODS : Lecturing ,Demonstrative,Brain storming, Direct teaching, case -study , Comparative method
	Bacterial, fungal, protozoan infections and treatment	5L	Handbook of Fish Biology and Fisheries Edited By J.B. Hart and John Reynold.	2)Teaching resources: LIVE SPECIMEN, PERMENANT SLIDES , A.V., TEXTBOOK , INTERNET , PICTURES, CHARTS
	Crustacean infections and treatment Physiological disorders (Dropsy) / diseases and treatment	5L		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____15______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: III MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : To introduce the learner to the science of dairy. To make the learner aware about care of different pet animals.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-III UNIT III APPLIED ZOOLOGY - (DAIRY SCIENCE)	3.2 DAIRY SCIENCE	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	3.2.1 ROLE OF DAIRY DEVELOPEMENT IN RURAL ECONOMY	01		PRESENTATION
	3.2.2 MILK AND MILK PRODUCTS	03		PRESENTATION

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
To introduce the learner to different bones of human skeleton and their functional importance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II HUMAN OSTEOLOGY	2.1 INTRODUCTION	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES,	PRESENTATION
	2.2 AXIAL SKELETON	06		PRESENTATION
		06		PRESENTATION

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	2.3 APPENDICULAR SKELETON		TEXT BOOK OF HUMAN ANATOMY BY TORTORA	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: Learner shall comprehend boat building techniques and design of engines used in mechanized boats.
Learner shall understand the operations of various types of nets and fishing method.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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AC UNIT - II	2.1 Basic boat building	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES, TEXT BOOK OF CRAFTS AND GEAR	PRESENTATION
	2.2 Basic studies of marine engines: Sectional View of 2-stroke and 4-stroke Diesel engines Winch and Deck Side Equipment	06		PRESENTATION
	2.3 Operations: Gill, Trawl, Purse seine Nets Hooks and Lines Non-conventional Fishing Methods	06		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: SYBSc. SEMESTER: IV MONTH: JANUARY ACADEMIC YEAR:2022-2023 _

LEARNING OBJECTIVE/S:
The learners will be able to : To give learner insight into the structure of biomolecules, and their role in sustenance of life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-II UNIT - III -BIOMOLECULES	3.1 BIOMOLECULES	02	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	3.2 CARBOHYDRATES	04		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:

The learners will be able to : To sensitize learner regarding the various threats to the wildlife. To introduce learner various way that can help in the protection, conservation, management and enhancement of wildlife populations and habitat.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER-IV UNIT II -WILDLIFE MANAGEMENT	2.1 HABIT, HABITAT, TERRITORY AND NICHE OF WILD ANIMALS	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	2.2 THREATS TO WILDLIFE	05		PRESENTATION
	2.3 WILDLIFE CONSERVATION	07		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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NAME OF THE STAFF: JUBER ANSARI DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: VI MONTH: JANUARY ACADEMIC YEAR:2022-2023 ____________________

LEARNING OBJECTIVE/S:
The learners will be able to: Learners will acquire the knowledge and would put in to practice the preservation and processing techniques for commercial ventures.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
AC UNIT - V Unit 5: PRESERVATION AND PROCESSING	5.1 Traditional methods and their modifications: i) Icing ii) Drying iii) Salting	03	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	PRESENTATION
	5.2 Introduction to refrigeration: Types and properties of refrigerants	05	Fish Biology by C.B.C. Srivastava –	PRESENTATION

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	5.3 Principle and steps involved in can reform and canning of fish	04	Narendra Pub. House.	PRESENTATION
	5.4 Equipment and utensils used in seafood processing	03		PRESENTATION

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: FYBSc. SEMESTER: I MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO ORIENT LEARNERS ABOUT RICH HERITAGE OF BIODIVERSITY OF INDIA MAKE THEM UNDERSTAND SIGNIFICANCE OF ITS CONSERVATION.
The learners will be able to : LEARNERS WOULD APPRECIATE TREASURE OF BIODIVERSITY, ITS IMPORTANCE AND HENCE WOULD CONTRIBUTE THEIR BEST FOR ITS CONSERVATION.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- BIODIVERSITY AND ITS CONSERVATION	INTRODUCTION TO BIODIVERSITY	01	UNIVERSITY TEXTBOOK BY BOARD OF STUDIES	
	LEVEL OF BIODIVERSITY	03	BIODIVERSITY-K.C AGARWAL	CHALK AND BOARD
	INTRODUCTION OF BIODIVERSITY HOTSPOTS	03		
	VALUE OF BIODIVERSITY	02		

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	THREATS TO BIODIVERSITY	03	FUNDAMENTALS OF WILDLIFE MANAGEMENT- RAJESH GOPAL	
	BIODIVERSITY CONSERVATION AND MANAGEMENT	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: TO COMPREHEND THE GENERAL CHARACTERS AND CLASSIFICATION OF KINGDOM ANIMALIA FROM PORIFERA TO NEMATODA AND SPECIFIC CHARACTERS OF ORGANISMS BELONGING TO THESE PHYLA.
DESIRED OUTCOME:
THE LEARNERS WILL BE FAMILIARIZED WITH CLASSIFICATION UP TO PHYLUM NEMATODA ALONG WITH THEIR EXAMPLES.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I UNIT II- KINGDOM ANIMALIA I	INTRODUCTION	01	UNIVERSITY TEXTBOOK BY	POWERPOINT PRESENTATION

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			BOARD OF STUDIES	
	PHYLUM: PORIFERA	03	INVERTEBRATE ZOOLOGY- JORDAN & VERMA	CHALK AND BOARD
	PHYLUM: CNIDARIA	04		
	PHYLUM: PLATYHELMINTHES	04		
	PHYLUM: NEMATODA	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: KAUSTUBH JADHAV DEPARTMENT: ZOOLOGY

CLASS: TYBSc. SEMESTER: V APPLIED COMPONENTS MONTH: JULY-DECEMBER ACADEMIC YEAR: 2022-2023

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LEARNING OBJECTIVE/S: TO ACQUIRE KNOWLEDGE OF VARIOUS BREEDING TECHNIQUES HATCHERY AND NURSERY MANAGEMENT OF VARIOUS CARPS

DESIRED OUTCOME: LEARNERS WILL UNDERSTAND BREEDING TECHNIQUES AND SKILLS NECESSARY FOR CULTURING OF MAJOR CARPS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III: FARMING OF MAJOR CARPS	INTRODUCTION	02	HANDBOOK OF FRESHWATER FISHES OF INDIA BY BEAVEN	POWERPOINT PRESENTATION
	BREEDING TECHNIQUE OF MAJOR CARPS AND COMMON CARPS	04	TRAINING MANUAL ON BREEDING, REARING AND MANAGEMENT OF INDIAN MAJOR CARPS- CARI (ICAR)	CHALK AND BOARD
	HATCHERY AND NURSERY MANAGEMENT	04		
	MONOCULTURE AND POLYCULTURE PRACTICES	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 14

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: T.Y.B.Sc SEMESTER: V MONTH: NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To understand concepts related to the general principles of pharmacology.
The learners will be able to : Understand the general mechanisms of the drug action and effect in the human body.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 603 BASIC PHARMACOLOGY AND NEUROCHEMISTRY UNIT I GENERAL PRINCIPLES OF PHARMACOLOGY	Mechanism of drug action , drug receptors and biological responses	04	Modern Pharmacology with clinical Applications Craig,C.R, Stitzel,R.E 5th edition	CHALKBOARD METHOD, YOU TUBE VIDEOS
	second-messenger systems, the chemistry of drug–receptor binding, dose–response relationship: therapeutic index	05		
	ED, LD; Potency and Intrinsic Activity	04		
	Drug antagonism	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: TYBSC

SEMESTER: VI

MONTH: January to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Gain an understanding of different types of vitamins
Gain an understanding of different types of minerals

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT601 Biochemistry **UNIT IV** Nutrition	Dietary sources, bioactive form, functions and disorders associated with fat soluble (A D E K) and water soluble vitamins- 7 Lectures;	07	Biochemistry by satyanarayana and Chakrapani	Chalk Board Power point presentation & Topic related videos
	Minerals - physiological and biochemical functions of principal and trace elements.	07	Biochemistry by satyanarayana	Chalk Board

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			and Chakrapani	Power point presentation & Topic related videos
	Malnutrition – Over nutrition (obesity) and PEM (Kwashiorkor and Marasmus)	01	Biochemistry by satyanarayana and Chakrapani	Chalk Board Power point presentation & Topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Swati Chaudhari DEPARTMENT: Biotechnology

CLASS: T.Y.B.Sc SEMESTER: V

MONTH: August- October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Describe general properties of virus, classification schemes, cultivation systems and virus purification and assay.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 502 Medical Microbiology and Instrumentation Unit 1- Virology	Introduction to viruses-Position in biological spectrum; Virus properties -	2	Foundations In Microbiology by Talaro and Talaro Third edition W.C Brown. Understanding Viruses by Teri Shors II	Powerpoint Presentations Mind Maps Youtube Videos Teaching Aids
	General structure of viruses Baltimore Classification and Taxonomy(ICTV) -	2		
	Cultivation of viruses	2		
	Reproduction of ds DNA phages Hepatitis /ss RNA (influenza), animal viruses and plant (TMV)virus	4		
	Virus purification and assays	2		

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	Cytocidal infections and cell damage	2	Microbiology by Prescott Harley and Klein 5th edition Mc Graw Hill	
	Viroids and Prions	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL   DEPARTMENT: BIOTECHNOLOGY

CLASS: S.Y.B.Sc   SEMESTER: IV   MONTH: NOVEMBER   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To have a firm foundation of the fundamentals and applications of current Chemical Theories for the Physical World.
The learners will be able to : Understand the different aspects of Analytical Chemistry.
Gain knowledge about various separation techniques.
Learn the benefits and limitations of different sampling strategies.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT402 APPLIED CHEMISTRY-II UNIT I SAMPLING AND SEPARATION TECHNIQUES	Sampling : Importance of Sampling and Sampling Techniques Types of Sampling - Random and Non-Random Sampling of Solids, Liquids and Gases.	06	Text Book of T.Y. B.Sc Analytical Chemistry Revised Syllabus	CHALKBOARD METHOD, YOU TUBE VIDEOS AND PRESENTATION
	Separation Techniques : Types of Separation Techniques - Filtration, Zone Refining, Distillation, Vacuum Distillation.	03	S.Y.B.Sc Analytical Chemistry Text Book-Sheth Publishers	
	Solvent Extraction - Partition Coefficient and Distribution Ratio, Extraction Efficiency, Separation Factor,	02		
	Role of Complexing Agents, Chelation, Ion Pair Formation, Solvation, and Soxhlation.	02		
	Centrifugation - Basic Principles of Sedimentation.	02	Fundamentals of Bioanalytical Techniques and Instrumentation - A. K.SRIVASTAVA	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mrs. Swati Chaudhari DEPARTMENT: Biotechnology

CLASS: S.Y.B.Sc SEMESTER: III

MONTH: September- December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Describe chemical and biological assay methods, Bioavailability and Bioequivalence concept.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III *In-vivo* and *Invitro* Assay of Industrial Products	Assay of Industrial Products: Chemical - Types and Subtypes; Kinetics. Advantages and Disadvantages.	6	Industrial Microbiology- A. H. Patel Industrial Microbiology- L. E. Casida- John Wiley & Sons	Power point Presentation Mind Map You Tube Videos Teaching Aids
	Biological; Types and Subtypes; Kinetics. Advantages and Disadvantages.	6		
	Bioavailability and Bioequivalence Studies	2		
	Half-Life Determination of Pharmacological Products.	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Swati

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: S.Y.B.Sc SEMESTER: III MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The objective of this course is to have a firm foundation of the fundamentals and applications of Organic and Green Chemistry.
The learners will be able to : Learn the role of Green Chemistry and its application in Industry.
Understand the different aspects of Green Chemistry.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 302 APPLIED CHEMISTRY-I UNIT III GREEN CHEMISTRY AND SYNTHESIS	Green Chemistry and Synthesis: Introduction to Green Chemistry;	02	College Organic Chemistry of T.Y. B.Sc Organic Synthesis - V. K. Ahluwalia	CHALKBOARD METHOD, TEACHING AIDS
	Need and Relevance of Green Chemistry;	02	SAME AS ABOVE	
	Principles of Green Chemistry	03	SAME AS ABOVE	
	Green Synthesis in Industry: Green Materials,Green Reagents, Green Solvents and Green Catalysts.	08	SAME AS ABOVE	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To acquaint students Knowledge of Redox reaction.
The learners will be able to : Understand the relationship between oxidation and reduction.

Learn to assign oxidation numbers to different elements and compounds.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 202 PHYSICAL CHEMISTRY UNIT III OXIDATION REDUCTION REACTIONS	Principles of Oxidation & Reduction Reactions Oxidising and Reducing Agents, Oxidation Number	02	XI STD MAH.STATE BOARD TEXT BOOK	CHALK BOARD, PRESENTATION AND TEACHING AIDS
	Rules to assign Oxidation Numbers with examples Ions like Oxalate, Permanganate and Dichromate	06		
	Balancing Redox Reactions by Ion Electron Method	05		
	Oxidation, Reduction, Addition and Substitution and Elimination Reactions.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: II MONTH: JANUARY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: To acquaint the students with some core aspects of physical chemistry
The learners will be able to : Learn the concept of thermodynamics and problems related to it.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 203 Basic Chemistry-II UNIT 1 - Thermodynamics	**Thermodynamics:** System, Surrounding, Boundaries Sign Conventions, State Functions, Internal Energy and Enthalpy: Significance, examples, (Numericals expected.)	05	NCERT 12th Chemistry Textbook	CHALKBOARD METHOD, TEACHING AIDS
	Laws of Thermodynamics and its Limitations: Mathematical expression. Qualitative discussion of Carnot Cycle for ideal Gas and Mechanical Efficiency. Laws of Thermodynamics as applied to Biochemical Systems.	06		
	Concept of Entropy, Entropy for Isobaric, Isochoric and Isothermal Processes.	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:II

MONTH: January to April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

Explain the role of body systems and mechanisms in maintaining homeostasis

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 203 Physiology and immunology Unit II Animal Physiology	Introduction to physiology: Concept of homeostasis. Body fluids: Major types of Body fluid. Blood: Functions of blood, general properties of blood, Composition of blood. Thrombocytes or Platelets. Coagulation of blood. Theories of Coagulation.	05	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos

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	Haemolysis. Respiratory system: Phases of Respiration, Principle of gases exchange, Mechanism of breathing.			
	Digestion and absorption: Mode of nutrition, Digestion: Digestion of foodstuffs, Digestion in humans. Absorption.	06	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos
	Excretion: Organs of excretion. Types of excretory products. Excretion in vertebrates - Human Kidney: Structure of kidney, Structure of nephron. Function of kidney. Urine formation. Dialysis	04	Applegate Anatomy and Physiology - Learning System Medical physiology by Guyton	Chalk Board power point presentation and topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:I

MONTH: October to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Identify various physical and chemical agents of controlling microorganisms

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 104 Basic Life Sciences-II: Microbial Techniques Unit II Sterilization Techniques	Definition: Sterilization and Disinfection. Types and Applications Dry Heat, Steam under pressure, Gases, Radiation and Filteration	04	Microbiology by Pelczar, Chan & Krieg 5th E	Power point presentation and topic related videos
	Chemical Agents and their Mode of Action - Aldehydes, Halogens, Quaternary Ammonium Compounds, Phenol and Phenolic Compounds, Heavy Metals, Alcohol, Dyes, and Detergents	04	Microbiology by Pelczar, Chan & Krieg 5th E	Power point presentation and topic related videos
	Ideal Disinfectant. Examples of Disinfectants and Evaluation of Disinfectant	02	Fundamentals of Microbiology by Frobisher 9th Ed	Power point presentation and topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: 1. Differentiate chiral and achiral molecules. Recognize and draw structural isomers (constitutional isomers), stereoisomers.
2. Identify the stereocenters in a molecule and assign the configuration as R or S.
3. Know the relationship between enantiomers and their specific rotations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit III-Stereochemistry	**Isomerism:** Types of Isomerism: Constitutional Isomerism (Chain, Position and Functional) and Stereoisomerism, Chirality.	06	F.Y.B.Sc Organic Chemistry, Himalaya Publication	CHALKBOARD METHOD, TEACHING AIDS
	Geometric Isomerism and Optical Isomerism: Enantiomers, Diastereomers, and Racemic mixtures Cis-Trans, Threo, Erythro and Meso isomers. Diastereomers (Cis-Trans Isomerism) in Alkenes and Cycloalkanes (3 and 4 membered ring)	05		
	Conformation: Conformations of Ethane. Difference between Configuration and Conformation. **Configuration:** Asymmetric Carbon Atom, Stereogenic/ Chiral Centers, Chirality Representation of Configuration by ―Flying Wedge Formula	03		
	Projection formulae: Fischer, Newman and Sawhorse. The Interconversion of the Formulae.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: F.Y.B.Sc SEMESTER: I MONTH: AUGUST ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To Predict the names of common ionic compounds and simple molecular compounds from their formulas.
To understand the difference between valence band theory and molecular orbital theory.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I- Nomenclature and Chemical bonds	Classification and Systematic Nomenclature of organic compounds (few examples)	04	NCERT 12th Chemistry Textbook	CHALKBOARD METHOD, TEACHING AIDS
	Chemical Bonds: Types and transition between the main types of bonding. **Ionic Bond:** Nature of Ionic Bond, factors influencing the formation of Ionic Bond. Structure of NaCl and CsCl.	05		
	Covalent Bond: Nature of Covalent Bond, Types of covalent bond (Polar and Coordinate covalent bonds). Structure of CH4, NH3, H2O, Shapes of BeCl2, BF3.	03		
	Hydrogen Bond: Theory of Hydrogen Bonding and Types of Hydrogen Bonding (with examples of RCOOH, ROH, Salicylaldehyde, Amides and Polyamides).	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SHWETA PATIL DEPARTMENT: BIOTECHNOLOGY

CLASS: T.Y.B.Sc SEMESTER: V MONTH: JUNE ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: 1. Students will be able to list the routes of exposure for a pathogen to a human being.
2. Students will be able to demonstrate and assess the proper use of PPE, best practices, biological containment, and be prepared to safely conduct research.
3. Students will be able to identify the role of the Biosafety Professional in Biomedical Research Laboratories

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Applied component UNIT-I Introduction to biosafety	Introduction; Biological Risk Assessment, Hazardous Characteristics of an Agent; Genetically modified agent hazards	04	Biosafety in Microbiological and Biomedical Laboratories - 5th Edition, L. Casey Chosewood Deborah E. Wilson U.S. Department of Health and Human Services Centers for Disease Control and Prevention National Institutes of Health.	CHALKBOARD METHOD, TEACHING AIDS
	Cell cultures; Hazardous Characteristics of Laboratory Procedures; Potential Hazards Associated with Work Practices	04		
	Safety Equipment and Facility Safeguards	02		
	Pathogenic risk and management	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: SYBSC SEMESTER: IV

MONTH: January to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to describe cultural, morphological, biochemical properties and pathogenesis of GI tract infection causing pathogens and Nosocomial infection causing Psudomonas.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT 403 **Medical Microbiology**	**GI Tract Infections :** *Salmonella And Shigella Spps.* (Characteristics, Virulence-Pathogenesis And Immunity,Clinical Disease, Carriers Lab Diagnosis,Phage Typing Prophylaxis And Treatment).	10	Text book of Medical Microbiology, Anantnarayan	Chalk Board
Unit III **Causative Organisms- III**	**Sexually Transmitted Diseases :** Syphilis And Gonorrhoea.	3		

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	Nosocomial Infections : *Ps. Aeruginosa*	2		Powerpoint presentation & Topic related videos

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: GLENYS MANUEL DSOUZA DEPARTMENT: BIOTECHNOLOGY CLASS: FYBSC SEMESTER:I

MONTH:August to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

Identify Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks

Develop an understanding of communication skills required to excel in real work environment and corporate life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USBT107 Unit I Academic skills	Essentials of Grammar: Parts of speech, Articles, Modals, Sentences and their types., Punctuation marks	03	Kumar, Sanjay, and Lata, Pushp. Communication Skills, Second Edition. India, Oxford University Press, 2015.	Lecturing, worksheets

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF - MR. SNEHAL S PATIL **DEPARTMENT**: Accounting and Finance **CLASS:**FYBAF **SEMESTER**: I

SUBJECT: BUSINESS COMMUNICATION - I **MONTH**: August to December **ACADEMIC YEAR:** 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students' writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Theory of Communication	**1) Concept of Communication-** Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom
2) Obstacles to Communication in Business World	**2) Channels and Objectives of Communication:** **Channels:** Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Morale of Employees **3) Methods and Modes of Communication:** **Methods:** Verbal and Nonverbal, Characteristics of Verbal Communication, Characteristics of Non-verbal Communication, Business Etiquette **Modes:** Telephone and SMS Communication (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication, Video and Satellite Conferencing **1) Problems in Communication /Barriers to Communication:** Physical, Semantic/Language, Socio-Cultural, Psychological Barriers, Ways to Overcome these Barriers			
2) Obstacles to Communication in Business World	2**) Listening:** Importance of Listening Skills, Cultivating good Listening Skills – **Introduction to Business Ethics:** Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility **Actual business practices:** Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

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3) Business Correspondence	**1)Theory of Business Letter Writing:** Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, **Personal Correspondence:** Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom
4) Language and Writing Skills	**Commercial Terms used in Business Communication Paragraph Writing:** Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc	15	Manan Prakashan, Vipul Publication	Black Board, Chalk, Google Classroom

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 * 4 = 60

Mr. Snehal S Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:

Dr. Priyanka Singh

DEPARTMENT: **Accounting and Finance** CLASS:**FYBAF**

SEMESTER: **I**______

SUBJECT: **BUSINESS ENVIRONMENT**

MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to understand the complex structure of Business and its Environment and how each environment impacts the business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1 Business and its Environment	Business Objectives, Dynamics of Business and its Environment, types of Business Environment	15	NG Kale	Chalk and Duster Google Classroom
Unit 3 Contemporary Issues	Corporate Social Responsibility and Corporate Governance, Ecology and Business, Carbon Credit. Social Audit and Commercial Audit.	15		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Arun Raut DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: I SUBJECT: Cost Accounting MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction	Introduction and classification of cost Definition of cost, Costing and cost Accounting. Cost Centre, cost unit. Classification of cost on different basis. Distinguish between cost Accounting and financial Accounting.	8	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.
Material	MATERIAL COST Introduction, definition, stock levels formula and calculation. EOQ Introduction, formula and calculation Stock ledger FIFO and Weighted average Practical questions.	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.
Labour	LABOUR COST Introduction, peace rate and hour rate calculations, bonus contributions, halsey's formula, uRowan, Tailor, Barth practical questions.	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.

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Overheads	OVERHEADS Indirect cost Introduction, distribution of cost on different basis practical questions	15	Manan prakashan, Internet	Chalk, Duster, Google classroom, Google sheet, world, excel, YouTube.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 53

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Mr. SACHIN ARJUN KADAM DEPARTMENT: Accounting and Finance CLASS:FYBAF Div (B and C) SEMESTER: I

SUBJECT: COST ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	**Introduction to Cost Accounting** Meaning, Define, Features, classification of types- Marginal costing, implicit costing, opportunity costing, etc. Objectives, difference between Cost accounting and Financial accounting.	6	Ainapure	Board, chawlk, ppt, you tube link
Unit 4	**Overhead Costing** Meaning, Concepts, Format, Problems 6 (Primary and Secondary)	9	Ainapure	Board, chawlk, ppt, you tube link

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___Dr. Akruti Bose___ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I SUBJECT: BUSINESS ECONOMICS-1 MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn in a simple manner to induce and retain the interest of the subject Economics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3	Cost Concepts: Types of Cost, Total, Average and marginal cost. Cost output relationship in short-run and Long run, Learning Curve.	1	Manan Prakashan,	Chalk and Blackboard.
Unit 5	Cost Oriented pricing methods: Cost--Plus Pricing, Marginal Cost pricing, Mark-up Pricing, discriminating pricing, multiple-product pricing, transfer pricing.	1	Sheth Publications	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Pandey DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Economics MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
The students will be able to Understand the important terms of Business Economics

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS
Introduction to Business Economics	●Basic concepts for business economic analysis Opportunity cost Incremental and marginal concepts Marginal analysis ●Functional relations and tool for economic analysis	03	MANAN Prakashan	Chalk and Board
Market Demand and Supply	Demand, Supply, Market Equilibrium, Changes in Market Equilibrium	02	MANAN Prakashan	Chalk send Board, Group Discussion

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Demand Function	• Meaning of demand, The Law of Demand, Determinants of Demand, demand function, price, income and Substitution effects, Nature of demand curve under different markets.	03	MANAN Prakashan	Chalk and Board, Group Discussion
Elasticity of Demand	Meaning of elasticity, price elasticity of demand, Income elasticity of demand, Cross elasticity of demand, Promotional Elasticity of Demand, Relationship between price elasticity of demand and Revenue Concepts, Importance of Elasticity of demand.	03	MANAN Prakashan	Chalk and Board
Demand Estimation and Forecasting	Significance of Demand Forecasting, Types of Demand Forecasting, Steps I Demand Forecasting, Methods in Demand Forecasting.	02	MANAN Prakashan	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bristi Biswas DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Economics-I MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the application of Microeconomics at the corporate level.

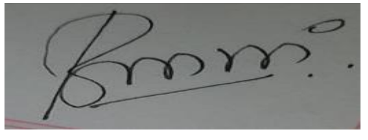
The learners will be able to: Observe Microeconomics in the real world and understand and take business decisions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module I Introduction to business economics	Meaning of demand, law of demand, determinants of demand, demand function, price, income and substitution effects, nature of demand curve under different markets.	10		Chalk & Board
Module II Demand Analysis	Meaning of elasticity, price elasticity of demand , income elasticity of demand , cross elasticity of demand,promotional elasticity of demand, importance of elasticity of demand , relationship between price elasticity of demand and revenue concept. Significance of demand forecasting ,types of demand forecasting, steps in demand forecasting ,methods of demand forecasting.	10		Chalk & Board

Module III Supply and production decisions and cost of production	Concept of production, production function, isoquants ,ridge lines least cost combination of inputs ,expansion path. Types of production function ,law of variable proportions, laws of returns to scale. Meaning of economies and diseconomies of scale, Internal economies and diseconomies of scale, external economies and diseconomies of scale. Cost concepts: money cost, accounting cost and economic cost, fixed , variable and total cost , total , average and marginal cost. Cost function, short run cost output ,relationship between AC, AFC ,AVC and MC, relationship between AC and MC ,short run average cost and output, long run cost output, long run average cost curve ,long run marginal cost curve ,learning curve, long run AC and output. Concept of break even point ,variables influencing the break even point ,business application of break even analysis ,limitations of break even analysis.		12	Chalk & Board
Module IV Market structure perfect competition and monopoly and pricing and output decisions under imperfect competition	Market structure ,types of market ,need to analyse the market structure. Perfect competition meaning and features ,short run equilibrium of the firm, long run equilibrium of the firm, equilibrium of industry and firm. Features of monopoly , sources of monopoly power, equilibrium of monopoly firm ,comparison between perfect competition and monopoly. Features of monopolistic competition, short run equilibrium of the firm, long run equilibrium of the firm ,selling cost and its effects, role of advertisement. Meaning of oligopoly ,characteristics of oligopoly ,collusive and non collusive oligopoly ,price rigidity , and price leadership.		12	Chalk & Board
Module V Pricing practices	Meaning of pricing practices, degrees of price discrimination, conditions for price discrimination, conditions for profitable price discrimination, equilibrium of price discriminating monopolist ,dumping.		10	Chalk & Board

	Introduction to pricing practices part II, marginal cost pricing ,cost plus pricing ,multi product pricing Transfer pricing.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 54



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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:____REENA BEHERA__________________ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: understand the concept of using micro economics for the growth of the economy by developing a core understanding regarding demand, supply and market condition in terms of revenue and cost and also application of forecasting for the development of the economy

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS ECONOMICS - I MODULE III, IV & V	3. Supply and Production Decisions and Cost of Production Production Function: Short run analysis with Law of Variable Proportions – Production function with two variable inputs – isoquants, ridge lines and least cost combination of inputs – Long run production function and Laws of Returns to Scale – expansion path – Economies and Diseconomies of Scale Cost Concepts: Accounting cost and economic cost, implicit and explicit cost, fixed and variable cost – total, average and marginal cost – Cost Output Relationship in the Short Run and Long Run (hypothetical numerical problems to be discussed), LAC and Learning Curve – Break even analysis (with business applications) 4. Market structure : Perfect competition and Monopoly and Pricing and Output Decisions under Imperfect Competition	2 lecture per week	Managerial Economics by P.L.Mehta, M.Hirchey Dominick Salvatore. Principles of Economics by Gregory Mankiw Managerial Economics and Concept by Pal Sumitra	Lecture, group discussion, test, oral presentation of important topics.

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	Short run and long run equilibrium of a competitive firm and of industry – monopoly – short run and long-run equilibrium of a firm under Monopoly Monopolistic Competition : Equilibrium of a firm under monopolistic competition, debate over role of advertising (topics to be taught using case studies from real life examples) Oligopolistic Markets : Key attributes of oligopoly – Collusive and non collusive oligopoly market – Price rigidity – Cartels and price leadership models (with practical examples) 5. Pricing Practices Cost oriented pricing methods: cost – plus (full cost) pricing, marginal cost pricing, Mark up pricing, discriminating pricing, multiple – product pricing – transfer pricing (case studies on how pricing methods are used in business world)		Advanced Economic Theory by H.L.Ahuja	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya DEPARTMENT: Accounting and Finance CLASS:FYBAF

SEMESTER: II SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Inventory valuation	6		chalk and duster
2	capital and revenue : expenditure and receipt	4		chalk and duster
3	accounting for hire purchase	10		chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_________TARIKA PATEL___________DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT 1 ACCOUNTING STANDARDS ISSUED BY ICAI AND INVENTORY VALAUATION	**Inventory Valuation** Meaning of Inventories Cost for Inventory Valuation Inventory Systems: Periodic Inventory System and Perpetual Inventory System	1	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Valuation: Meaning and Importance Methods of Stock Valuation as per AS-2 FIFO and Weighted Average Method	2		
	Practical Illustrations	5		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

NAME OF THE STAFF:___ TARIKA PATEL___________DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 FINAL ACCOUNTS	Expenditure: (a) Capital (b) Revenue Receipts: (a) Capital (b) Revenue Adjustments and Closing Entries	5	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 05

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: TARIKA PATEL DEPARTMENT: Accounting and Finance CLASS: FYBAF SEMESTER: I

SUBJECT: FINANCIAL ACCOUNTING MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 ACCOUNTING FOR HIRE PURCHASE	Meaning, Calculation of Interest	2	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Accounting for hire purchase transactions by assets purchase method base on full cash price	3		
	Journal Entries, Ledger Accounts and disclosure in balance sheet for hirer and vendor (excluding default, repossession and calculation of cash price)	4		
	Practical Illustrations	6		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: FINANCIAL MANAGEMENT (I) DEPARTMENT: ACCOUNTING & FINANCE

CLASS: FYBAF SEMESTER: I MONTH: AUGUST-SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 TYPES OF FINANCING	Introduction, Needs of Finance and Sources: Long Term, Medium Term, Short Term	02	FINANCIAL MANAGEMENT BY RAVI & KISHORE	• Chalk • Board • Discussion • Examples • Google Classroom
	Introduction, Needs of Finance and Sources: Long Term, Medium Term, Short Term	02		
	Long Term Sources of Finance	02		
	Short Term Sources of Finance	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT4: 08

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Ms. SUREKHA BHARGAV SUBJECT: FINANCIAL MANAGEMENT (I) DEPARTMENT: ACCOUNTING & FINANCE CLASS: FYBAF SEMESTER: I MONTH: SEPTEMBER- OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:The learners will be able to : Understand the Concepts well and relate to practical knowledge.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 COST OF CAPITAL	Introduction Definition and Importance of Cost of Capital	01	FINANCIAL MANAGEMENT BY RAVI & KISHORE	• Chalk • Board • Discussion • Examples • Google classroom
	Measurement of Cost of Capital, WACC	02		
	Practical Illustrations	6		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 5: 09

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Seema Sihana DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I SUBJECT: FC I MONTH: August to December 2022 ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To make the students socially aware of the societal problem and their personality.
The learners will be able to: to understand the overall stratification of the society.
The learners will be able to: to understand the Indian constitution and its importance.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
FC I	Module-I Multi-cultural diversity and Indian society through its demographic composition: population distribution according to religion, caste, and gender, Appreciate the concept of linguistic diversity in relation to the Indian situation: Understand regional variations according to rural, urban and tribal characteristics Understanding the concept of diversity as difference.	05	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom
	Module II- Concept of disparity-1 1. Understanding the concept of disparity as arising out of stratification and inequality 2. Gender Ratio, Gender Discrimination	10	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom

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	3. Violence against women 4. Female foeticide 5. Portrayal of women in media 6. Inequalities faced by people with disabilities and understand the issues of people with disabilities.			
	. Module III- Concept of disparity-2 Examine inequalities manifested due to the caste system and inter group conflicts arising there of Understanding inter group conflicts arising out of communalism Causes and effects of communalism, regionalism, linguistic casteism Unit - 4 The Indian Constitution Philosophy of the Constitution as set out in the Present, The structure of the Constitution - the Preamble, Main Body and Schedules Fundamental Duties of the Indian Citizen, tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society Basic features of the Constitution Unit - 5: Significant Aspects of Political Processes The party system in Indian political Local self-government in urban and rural areas The 73 and 74 Amendments and their implications for inclusive politics Role and significance of women in politics Topics for Project Guidance : Growing Social Problems in India	10 10 10	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion 4. Google Classroom

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Pranali Prabhakar Gurav ______DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT:Cost Accounting. MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
OVERHEAD	Overheads the concept Classification of overhead on different bases. Apportionment and Absorption of overheads	15	Manan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: BUSINESS COMMUNICATION II MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	5	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants,	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM

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	Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference **Modern Methods:** Video and Tele – Conferencing **Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR			
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM
4) Language and Writing Skills	**Reports:** Parts, **Types** - Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	10	Manan Prakashan book	CHALK & BLACK BOARD METHOD INTERACTIVE METHOD GOOGLE CLASSROOM

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF - MR. SNEHAL S PATIL **DEPARTMENT:** Accounting and Finance **CLASS**:FYBAF **SEMESTER**: II

SUBJECT: BUSINESS COMMUNICATION – II **MONTH**: December to May **ACADEMIC YEAR**: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference	12	Manan Prakashan, Vipul Prakashan	Black Board, Chalk

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	Modern Methods: Video and Tele – Conferencing			
2) Group Communication	**Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR	03	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk
4) Language and Writing Skills	**Reports:** Parts, **Types -** Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	15	Manan Prakashan, Vipul Prakashan	Black Board, Chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15*4=60

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Mr. Snehal S Patil

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita A Raut   DEPARTMENT: Accounting and Finance   CLASS: FYBAF   SEMESTER: II

SUBJECT: FINANCIAL ACCOUNTING   MONTH: December to May   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: learn the concepts of Branch Account and consignment Account.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.Branch Accounting	Branch Accounting Dependent Br. and Independent Br. , Debtors method = journal entry, ledgers, 2 practical questions Stk and Debtors method = journal entry, ledgers, 4 practical questions	12	Manan prakashan Internet	Chalk and Duster, Google classroom, Ms. excel, Ms word.
2.Consign ment Accounting	Consignment Accounting Introduction, consignor - consignee concept, consignment and sales distinguish, del credere commission, journal entry, ledgers, 5 practical questions.	14	Manan prakashan Internet	Chalk and Duster, Google classroom, Ms. excel, Ms word.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 26

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___Vishal Sawant______ DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: FINANCIAL ACCOUNTING MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: calculate the value of claim for fire insurance, prepare final Account.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.	Fire Insurance = Introduction , concept, definition of loss, Insurance, salvage value, etc. Format of Memorandum Trading Account, formulas for calculation of claim amount, 7 practical questions.	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
2.	Accounting from incomplete records = Introduction of single entry and double entry system, calculations of missing Amt, preparation of ledgers, format of final Account, 5 practical questions.	15	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 25

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT:FOUNDATION COURSE II MONTH: December To May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1	Globalisation & Indian Society Concepts of liberalization, privatization and globalization Growth of information technology and communication and its impact manifested in everyday life Impact of globalization on industry: changes in employment and increasing migration Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	5	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

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UNIT 2	Human Rights a]Concept of Human Rights. b] Evolution of Human Rights c] The Universal Declaration of Human Rights d] Fundamental Rights in Constitution	10	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM
UNIT 3	Ecology a] Concept of environment & ecology b] Importance of environmental studies, Environment as a Natural capital & quality of human life c] Environmental Degradation. i. Causes ii. Impact on human life d] Sustainable Development i. Concept ii. Components e] Poverty & Environment	10	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

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UNIT 4	Understanding Stress & Conflicts Causes of stress & Conflicts in individual & society, Agents of Socialization & the role played by them in developing the individual. Significance of values, ethics & prejudices in developing the individuals. Stereotyping & prejudice as significant factors in causing conflicts in society. Aggression & Violence as the public expression of conflicts.	5	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM
UNIT 5	Managing stress & conflict in Contemporary Society Types of conflicts and use of coping mechanisms for managing individual stress Maslow’s theory of self-actualisation, Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	3	Book by Manan publications/Internet	CHALK & BLACK BOARD METHOD & GOOGLE CLASSROOM

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT : 33

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ASHWINI DATTATRAY BHOIR DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: I

SUBJECT: Business Regulaory Framework MONTH: August to December ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: The learners will be able to know the meaning of the terms Agreement and contract and note the Distinction between the two.

The learners will be able to know the Concept of Indemnity & Guarantee, Difference between contract of indemnity and contract of Guarantee.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module 1 **The** Indian contract Act, 1872,	Nature of contract, Classification of contract, Offer and Acceptance, Capacity of parties to the contract, Free Consent, Consideration, Legality of object, Agreement declared void, performance of contract, Discharge of contract, Remedies for breach of contract, Indemnity, Guarantee, Bailment and Pledge, Agency.	14	The Indian Contract Act,1872 -Avtar singh	Lecture and Discussion Black Board, Chalk, Duster
Module 2 The Sale of Goods Act, 1930	Formation of contract of sale, Goods and their classification, Price, Conditions and warranties, Transfer of property in goods, performance of the contract of sales, unpaid seller and his rights, Sale by Auction, Hire purchase Agreement.	12	Business Regulatory Framework	Lecture and Discussion Black Board, Chalk, Duster

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			Kalaivani venkataraman, Vipul prakashan	
Module 3 Negotiable instrument Act, 1881	Definition of Negotiable instrument, features of Negotiable instrument, Promissory note, Bill of exchange and Cheque, Holder and Holder in the Due Course, Crossing of a Cheque, Dishonour and Discharge of negotiable Instrument.	12	Business Regulatory Framework Kalaivani venkataraman, Vipul prakashan	Lecture and Discussion Black Board, Chalk, Duster
Module 4 The consumer protection Act, 1986	Salient Feature, Definition of consumer, Deficiency in service, Defect in Goods	10	Business Regulatory Framework Kalaivani venkataraman, Vipul prakashan	Lecture and Discussion Black Board, Chalk, Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 48

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachya DEPARTMENT: Accounting and Finance CLASS:FYBAF

SEMESTER: II SUBJECT: Business Law - I MONTH: January - April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	**Law of contract,1872**	15		Chalk and Duster
2	**The sale of Goods Act,1930**	15	Vipul’s prakashan	Chalk and Duster
3	**Negotiable instrument’s Act,1881**	10		Chalk and Duster

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4	**The Consumer protection Act,1986**	**10**		**Chalk and Duster**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 50

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Sarita Panigrahy DEPARTMENT: Accounting and Finance CLASS:FYBAF SEMESTER: II

SUBJECT: Business Maths MONTH: December to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Skills and Value, Learning objectives Curriculum Communicate

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit -I	Ratio ,Proportion and Percentage- Define,Continue Ratio,Inverse Ratio Proportion,- Continued ,Direct Proportion, Inverse Proportion,Variation and Percentage	10	Fundamentals Of Statistics-S. C. Gupta	Lecture Method, Interactive and Participative Methods
Unit -II	Profit and Loss - Term and formula ,Trade Discount ,Cash Discount,Problems involving cost Price ,Selling Price ,trade discount ,Brokerage .	12	Fundamentals Of Statistics-S. C. Gupta	Discussion method , Preparation and Delivery of Lecture
Unit -III	Interest and Annuity (Elementary Financial Mathematics) : Simple and Compound Interest ,EMI, Annuity immediate	12	Fundamentals Of Statistics-S. C. Gupta	Chalk Duster Method, Demonstration lesson
Unit - IV	Shares and Mutual Fund - Concept ,face value , Market value, dividend, Equity shares ,simple problem on calculation of net income after consider , exit and entry load ,net asset value	15	Fundamentals Of Statistics-S. C. Gupta	Study Assignment Method Seminar Method

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 49

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF : LEJESH KELOTH DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: III

SUBJECT: BUSINESS ECONOMIC MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Introduction to Macroeconomics ♦ Macroeconomics : Meaning, Scope and Importance ♦ Circular Flow of Aggregate Income and Expenditure : Closed and Open Economy Models ♦ The Measurement of National Product : Meaning and Importance – Conventional and Green GNP and NNP Concepts – Relationship Between National Income and Economic Welfare ♦ Short run Economic Fluctuations : Features and Phases of Trade Cycles ♦ The Keynesian Principle of Effective Demand : Aggregate Demand and Aggregate Supply – Consumption Function – Investment Function – Effects of Investment Multiplier on Changes in Income and Output	(15 Lec.) (15 Lec.)		

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	2. Money, Inflation and Monetary Policy ♦ Money Supply : Determinants of Money Supply – Factor influencing Velocity of Circulation of Money ♦ Demand For Money : Classical and Keynesian Approaches and Keynes' Liquidity Preference Theory of Interest ♦ Money and Prices : Quantity Theory of Money – Fisher's Equation of Exchange – Cambridge Cash Balance Approach ♦ Inflation : Demand Pull Inflation and Cost Push Inflation – Effects of Inflation – Nature of Inflation in a Developing Economy ♦ Monetary Policy : Meaning, Objectives and Instruments, Inflation Targeting 3. Constituents of Fiscal Policy ♦ Role of Government to provide Public Goods – Principles of Sound and Functional Finance ♦ Fiscal Policy : Meaning, Objectives – Contra Cyclical Fiscal Policy and Discretionary Fiscal Policy ♦ Instruments of Fiscal Policy : Canons of Taxation – Factors Influencing Incidence of Taxation – Effects of Taxation – Significance of Public Expenditure – Social Security Contributions – Low Income Support and Social Insurance Programmes – Public Debt – Types, Public Debt and Fiscal Solvency, Burden of Debt Finance ♦ Union Budget : Structure – Deficit Concepts – Fiscal Responsibility and Budget Management Act	(15 Lec.)		

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	4. Open Economy : Theory and Issues of International Trade ♦ The Basis of International Trade : Ricardo’s Theory of Comparative Cost Advantage – The Hecksher-Ohlin Theory of Factor Endowments – Terms of Trade – Meaning and Types – Factors Determining Terms of Trade – Gains from Trade – Free Trade versus Protection ♦ Foreign Investment : Foreign Portfolio Investment – Benefits of Portfolio Capital Flows – Foreign Direct Investment – Merits of Foreign Direct Investment – Role of Multinational Corporations ♦ Balance of Payments : Structure – Types of Disequilibrium – Measures to Correct Disequilibrium in BOP ♦ Foreign Exchange and Foreign Exchange Market : Spot and Forward Rate of Exchange – Hedging, Speculation and Arbitrage – Fixed and Flexible Exchange Rates – Managed Flexibility	(15 Lec.)		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Gurav DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: III SUBJECT:

MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
1) Understand & Remember- the meaning of salary; section 10, sections 15-17; calculation of income from salary; various allowances (taxable, partly taxable, non-taxable); perquisities; rules and calculation of Gratuity, Pension, Leave encashment.
2) Understand & Remember- the meaning of income from other sources; sections 56-59; calculation of income from other sources.
3) Understand & Remember- the meaning of capital gains; Section 45, 48, 49, 50, 54 and 55, calculation of capital gains.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Income from Salary	10	Book by Manan publications/Internet	Google Classroom, chalk and Board
Unit 2- Heads of Income	Income from Other Sources	8	Book by Manan publications/Internet	Google Classroom, chalk and Board
	Capital Gains	10	Book by Manan publications/Internet	Google Classroom, chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 28

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Pandey DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: Business Law MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

The pupils will be able to learn about the contract Act, where they will learn the concept of contract, essentials and types and rules regarding the contract

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Section 2 Clause(2), (7), (13), (31), (41),(42),(47), (48),(62),(85)	Accounting Standard, Auditing Standard, Books of Accounts, Deposits, Financial Year, Foreign Company, Independent Director, Indian Depository Receipts, One Person Company, Small Company	15	MANAN PRAKASHAN	Chalk and Board
Incorporation to Companies Section 3 to Section 20	Incorporation of Company and matters Incidental Thereto, Exemptions and Privileges available to Private Company, Restrictions relating to a private company, Provisions applicable to one person company, MOA and AOA	15	MANAN PRAKASHAN	Chalk and Board, Group Discussion
Public Offer Section 23, 25 to 28, 33, 35, 39	Public Offer, Prospectus, Types, Issue of application forms for securities, Civil liability for Mis-statememems in Prospectus, Allotment of securities by Company	15	MANAN PRAKASHAN	Chalk and Board, Case Studies

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Private Placement Section 42	What_is Private Placement, Amendment in Private Placement Rules	2	MANAN PRAKASHAN	Chalk and Board
Share Capital and Debentures Section 43, 46, 47, 52 to 56, 61 to 72	Kinds of Share Capital, Shares and Debentures as movable property, Distinction number to shares, Certificate of Shares, Voting Rights, Application of Premiums received on issue of shares, Sweat Equity, Power of limited Company to alter its shares capital	13	MANAN PRAKASHAN	Chalk and Board, Cade Studies, Group Discussion

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Pranali Prabhakar Gurav _____ DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT:Business Law. MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	Chalk and board
	Unit : 1 Definitions 1. Section 2 2. Clause (2) Accounting Standard 3. Clause (7)- Auditing Standard 4. Clause (13) Books of Accounts 5. Clause (31) Deposit 6. Clause (41) Financial Year 7. Clause (42) Foreign Company 8. Clause (47) Independent Director 9. Clause (48) Indian Depository Receipts 10. Clause (62) - One Person Company 11. Clause (85) Small Company	15	Manan & Vipul Publicatio	Chalk and board

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Business Law	Unit 2 : Incorporation of Companies Section 3 to Section 20 Unit 3 : Public Offer 1. Sections 23, 25 to 28, 33, 35, 39	30	Manan & Vipul Publicatio	Chalk and board
	Unit 4 : Private Placement 1. Section 42 Unit 5 : Share Capital and Debentures Sections 43, 46, 47, 52 to 56, 61 to 72	30	Manan & Vipul Publicatio	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 75

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr. Priyanka Singh

DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV SUBJECT: Foundation Course in Management

MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to learn the varied management concepts as well as they will be taught the basic functions of management at each level which will make them ready for the corporate world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	Introduction to Management Nature, importance, Principles of management, levels of Management.	10	Henry Fayol Administration and Management	Chalk and Duster, Google Classroom , Videos
Unit 2	Planning Nature , importance, benefits and drawbacks , steps of Planning, essential of good plans, Decision Making	10		
Unit 3 Unit 4	Organising Nature Benefits Importance Formal and Informal Organisation Centralisation and Decentralisation Delegation of Authority Departmentation. Staffing, Recruitment, Employment Test, Types of Interviews			

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Unit 5	Directing Importance, Benefits Motivation, Factors of Motivation Controlling Steps in Controlling Essential of a Good control System			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Seema Sihana DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV SUBJECT:

MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: To enable students to obtain basic knowledge and skills required in the field of Management.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
MANAGEMENT	INTRODUCTION TO BASIC MANAGEMENT CONCEPTS:- Introduction and definition of management, nature and objectives of management, administration vs management, levels and principles of management. PLANNING:- Definition, Importance, Process, Limitations of Planning, Features of Sound Planning, Features and Process of Decision making. ORGANISING:- Definition, Nature and Significance, Process, Principles of Organisation, Formal and Informal Organisation- Features, Advantages and Disadvantages, Centralisation and Decentralisation- Factors, Merits and Demerits, Departmentation and Delegation. STAFFING:- Meaning and Importance, Recruitment and its Sources, Selection Procedure, Distinguish between Recruitment and Selection,	05 10 10 10	The Practice of Management by Peter Drucker. Management: Principles and Practice by S.K.Mandal.	Chalk and Duster, PPT, Google Class room

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		10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 45

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Megha Kulkarni **SUBJECT: Information Technology** **DEPARTMENT: Accounting and Finance**

CLASS: SYBAF **SEMESTER:VI** **MONTH:Jan-feb** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I & II Business Process,	Introduction, Definition & meaning of Business Process ,Flow of business process for accounting, purchase, sales and finance Classification of business processes, Introduction, Definition and Meaning of Business Process Management, Principles and practices of Business Process Management Business Process Management life cycle, Theories of Business Management Process, Implementation of Business Process Management - need, key factors and importance, Automation of business Processes - benefits, risks, challenges, Accounting systems automation, IT and Business Process Management , Information Systems - Meaning, Use of IT in Accountancy	15	Information Technology in Accountancy - II by Verus D’sa, Internet source.	Chalkboard method, discussion, debates.

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Computerized Accounting System	Introduction and Meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports.	20		
	Accounting Software: Introduction and meaning, Advantages of Accounting Software, Use of Accounting Software, Various Accounting Softwares, Accounting Software Tally.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Megha Kulkarni **SUBJECT:Information Technology** **DEPARTMENT: Accounting and Finance**

CLASS: SYBAF **SEMESTER:VI** **MONTH: March-April** **ACADEMIC YEAR: 2022-23**

LEARNING OBJECTIVE/S:

The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III & IV Concept of MIS Report in computer Environment & IT And Auditing	Introduction, concept of MIS, Need for MIS , Characteristic of MIS , Outputs of MIS, Role of MIS, Guidelines for developing MIS reports, Functional Aspects of the MIS , Problems in MIS , Knowledge required for studying MIS, MIS and Computer.	15	Information Technology in Accountancy II Verus D'Sa, Internet source.	Chalkboard method, discussion, debates.
	Need and importance of IT in Auditing,Auditing in It Environment.	10		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Devnath_Rajput **DEPARTMENT:** Commerce (Self- Finance) **CLASS :** SYBAF

SEMESTER: IV **MONTH:** November - May **ACADEMIC YEAR:** 2022- 2023 **SUBJECT:** Information Technology in ACC.FIN

LEARNING OBJECTIVE/S:

The learners will be able to: To gain the knowledge of various business process, how to use computerized accounting software, how manage information and little introduction to IT & auditing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

UNIT - I Business Process	**Introduction, Definition and Meaning of business process Flow of business process for accounting, purchase, sales and finance Classification of business processes Introduction, Definition and Meaning of Business Process Management Principles and practices of Business Process Management Business Process Management life cycle Theories of Business Management Process Implementation of Business process Management – need, key factors and importance Automation of business Processes – benefits, risks, challenges Accounting systems automation IT and Business Process Management Information systems – Meaning, Use of IT in accountancy.**	**15**	**Information Technology in Accounts and Finance By- Rimple Sanchla, Manan Publications. and www.wikipedia.com**	**Board , Chalk and Duster**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

UNIT - II **Computerized accounting system**	**A) Introduction and meaning Uses and Benefits Role Need and requirements of computerized accounting Basic requirements of computerized accounting system.**	**05**	**Information Technology in Accounts and Finance By- Rimple Sanchla, Manan Publications. and www.wikipedia.com**	**Board , Chalk and Duster**
	B) Limitations of computerized accounting system Understand the development and design of a computerized accounting system; determining how the accounting data will be processed, i.e. what accounts and books are needed and what is the desired output i.e. financial reports and other reports.	**07**		
	C) Accounting Software Introduction and meaning Advantages of accounting software Uses of Accounting software Various accounting software.	**05**		
	D) Accounting software TALLY – Accounting and reports.	**03**		

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Concept of MIS Reports in Computer Environment	A) Introduction Concept of MIS Need for MIS Characteristic of MIS.	05	I.T in Accounts and Finance By- Rimple Sanchla, Manan Publications.& www.wikipedia.com	Board , Chalk and Duster
	B) Outputs of MIS Role of MIS Guidelines for Developing MIS reports Functional Aspects of the MIS.	05		
	C) Problems in MIS Knowledge required for studying MIS, MIS and Computer.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV IT and Auditing	Need and importance of IT in auditing Auditing in IT environment.	10	I. T in Accounts and Finance By- Rimple Sanchla, Manan Publications. & www.wikipedia.com	Board , Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

Priyanka Rajput

SIGNATURE OF THE STAFF

Dr. Rakhi Oza

SIGNATURE OF THE H.O.D.

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF. MEGHA NAIK. DEPARTMENT: ACCOUNTANCY CLASS: S.Y.BAF (DIV A,B & C) SEMESTER: IV

MONTH: NOV to MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

THE LEARNERS WILL BE ABLE TO: APPLY THESE MANAGEMENT ACCOUNTING RELATED TOPICS TO THEIR FUTURE PROSPECTS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction To Management Accounting Analysis & Interpretation of accounts	Introduction to Management Accounting Vertical Statement Analysis -Vertical Statement - Trend Analysis - Comparative Statement - Common Size Statement	15	Management Accounting – M.Y. Khan. Management Accounting – I. M. Pandey. Cost & management accounting – Colinn Dury	Chalk & Duster Google classroom, PPT

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Financial statement Analysis: Ratio Analysis	**Ratio Analysis** · **Balance Sheet Ratios** · **Revenue Statement Ratios** · **Composite Ratios**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**
Working Capital Management	**Concept, nature, planning of working capital** **Estimation / projection of working capital mgmt.** **Operating cycle practical problems**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**
CASH FLOW MGMT	**Preparation of cash flow statement –with reference to AS 3 (Indirect method only)**	**15**	**Management Accounting – M.Y. Khan.** **Management Accounting – I. M. Pandey.** **Cost & management accounting – Colinn Dury**	**Chalk & Duster** **Google classroom, PPT**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 6 0

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_Karishma Kale______ DEPARTMENT: Accounting and Finance___ CLASS: SYBAF: A,B,C SEMESTER: IV

SUBJECT: Research Methodology MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Have knowledge of the basic content related to Research and its conduction process, different methods and types related to research and basics of preparation of research report.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Introduction to Research	Meaning of Research, Features of Research, Objectives of Research, Importance of Research in Accounting and Finance, Types of Research, Stages in Research process, Steps in formulation of research problem, Factors influencing selection of research problem, Sources of research problem, Review of literature,	5	Manan Prakashan, Sheth Publications	Chalk and duster
2. Research Design in accounting and Finance	Meaning, Need and importance of Research Design, Essentials of a good research design, Types of Research Design, Sources of Hypothesis, Steps in formulation of hypothesis, Importance of Hypothesis, Types of hypothesis	5	Manan Prakashan, Sheth Publications	Chalk and duster
3. Data Collection and Processing	Meaning and types of Data, Factors influencing choice of data collection, Primary Data- Methods: Experimentation, Interview, Survey Schedule and Questionnaire Advantages and limitations Secondary Data- Sources, Advantages and limitation Sampling- Significance, methods, Factors determining sample size	7	Manan Prakashan, Sheth Publications	Chalk and duster

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	Data Processing: Significance, Stages in Data processing Sums			
4. Interpretation and Report writing	Meaning, Methods of Data Interpretation Report writing, Importance, Essentials of a good report, Structure of research report , TYpes of research report	4	Manan Prakashan, Sheth Publications	Chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 21

Karishma Kale

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA SANJAY MAHESHWARI DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: RESEARCH METHODOLOGY MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Research Methods in Business & Accounting.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	· Introduction to Research Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance, Objectives and Types of research-Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem: Meaning and Selection Review of Literature	**8**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

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Unit 2	Research Design in Accounting and Finance Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types Different Research designs	**7**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**
Unit 3	Data Collection and Processing Data Collection: Introduction and meaning, types of data Primary data: Observation, Experimentation, Interview, Schedules, Survey, Questionnaires, Limitations of Primary data Secondary data: Sources and Limitations Factors affecting the choice of method of data collection. Sampling: Significance, Methods, Factors determining sample size	**4**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

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	Data Presentation: Significance in Research, Stages in Data Processing: Editing, Coding, Classification, Tabulation, Graphic Presentation Statistical Analysis: Tools and Techniques, Measures of Central Tendency, Measures of Dispersion, Correlation Analysis and Regression Analysis. Use of computer and internet in data collection and processing.			
Unit 4	Interpretation and Report Writing Meaning and techniques of interpretation, Research Report Writing: Importance, Essentials, Structure/layout, Types	**5**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers & Manan Prakashan book**	**Blackboard, Chalk, Google classroom**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______________________ DEPARTMENT: Accounting and Finance CLASS: SYBAF SEMESTER: IV

SUBJECT: MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Clubbing Of income	5	Sheth/Manan/ ICAI books	Chalk -Board
2	Set off and carry forward	5		Chalk -Board
3	Computation if tax liability of partnership Firm	8		Chalk -Board
4	Computer of tax liability of an individual	8		Chalk -Board

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5	Return of Income	4		Chalk -Board
6	Advance Tax and Interest	6		Chalk -Board
7	TDS	4		Chalk -Board
8	Ethics in Taxation	3		Chalk -Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya DEPARTMENT: Accounting and Finance CLASS: SYBAF

SEMESTER: IV SUBJECT: Direct Tax MONTH: November to May ACADEMIC

YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Clubbing of income	08		Chalk and Duster
2	Set Off	08		Chalk and Duster
3	Computation of tax liability of individual & HUF	08		Chalk and Duster
4	Computation of income of partnership firm	08	Ainapure, Manan Prakashan	Chalk and Duster

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5	Return of income section 139	03		Chalk and Duster
6	Deduction of tax at sources	04		Chalk and Duster
7	Advance tax and interest	04		Chalk and Duster
8	DTAA U/S 90 & 91	04		Chalk and Duster
9	Tax planning & ethics in taxation	03		Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. Integrated and non integrated system	Integrated Accounting system = Introduction, concept of cost Accounting and Accounting, reason behind the difference between cost and accounting Profits. Journal entry, ledgers, 6 practical questions .	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
	Non Integrated Accounting System = Introduction, difference between integrated and non integrated system, journal, ledgers, 5 practical questions.	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word
Activity Based Costing system	Introduction, definition, format, 5 practical questions	10	Manan Prakashan and Internet	Chalk and Duster, Google classroom, Ms excel, Ms word

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:__Pranali Prabhakar Gurav ______________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF

SEMESTER:V SUBJECT:Financial Accounting V MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit : 1 AS-14-Amalgamtion, Absorption and External Reconstruction (Excluding Inter-Company holdings) 1. In the nature of merger and purchase with corresponding accounting treatment of pooling of interests and purchase method respectively. 2. Meaning and Computation of Purchase Consideration. 3. Problems based on Purchase Method only.	20	Manan & Vipul Publication	Chalk Board
Financial Accounting 5	Unit 4 : Underwriting of Shares and Debentures. 1. Introduction, Underwriting, Underwriting Commission Provision of Companies Act with respect to Payment of Underwriting 1. Introduction, Underwriting, Underwriting Commission	15	Manan & Vipul Publication	Chalk Board

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	Provision of Companies Act with respect to Payment of Underwriting commision			
	2. Underwriters, Sub-Underwriters, Brokers and Manager to Issues 3. Types of Underwriting, Abatement Clause 4. Marked, Unmarked and Firm-Underwriting Applications, 5. Liability of the Underwriters in respect of Underwriting 6. Contract Practical Problems			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Shruti Basare_. _ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT:Financial Accounting V MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Buy Back of Shares Company Law/Legal provisions (including related restrictions, power, transfer to capital redemption reserve account and prohibitions) Compliance of conditions including sources, maximum limits and debt equity ratio.Cancellation of Shares Bought back (Excluding Buy Back of minority shareholding) Practical Problems	10	Manan	Chalk and board
Financial Accounting V	2.Internal Reconstruction Need for reconstruction and company law provisions Distinction between internal and external reconstruction. Methods including alteration of share capital, variation of shareholder rights, sub division, consolidation, surrender and reissue / cancellation, reduction of share capital with relevant legal provisions and accounting treatment for same. Practical Problems	15	Manan	Chalk and board

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	3.Liquidation of Companies Meaning of liquidation or winding up Preferential Payments Overriding preferential payments Preparation of statement of affairs, deficit/ surplus account Liquidator's Final Statement of Account Practical Problems	15	Manan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tarika Patel DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL ACCOUNTING VI MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 FINAL ACCOUNTS OF BANKING COMPANY	Legal provision in Banking Regulation Act, 1949 relating to Accounts, Statutory reserves including Cash Reserve and Statutory Liquidity Ratio.	2	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Bill purchase and discounted, rebate of bill discounted, Non–performing assets and Income from non–performing assets.	3		
	Classification of Advances, standard, sub–standard, doubtful and provisioning requirement.	1		
	Final Accounts in prescribed form	1		
	Capital Adequacy	2		
	Practical Illustrations	6		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Tarika Patel DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL ACCOUNTING VI MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 FINAL ACCOUNTS OF INSURANCE COMPANY	General Insurance – Various types of insurance, like fire, marine, Miscellaneous, Special terms like premium, claims, commission, Management expenses, Reserve for unexpired risk, reinsurance	4	FINANCIAL ACCOUNTING BY R L GUPTA	· Chalk · Board · Discussion · Examples
	Final Accounts in a prescribed form. Revenue Statement – Form B – Revenue Account, Profit / Loss Account – Form B – Profit & Loss and Balance Sheet Form B – BS	3		
	Practical Illustrations	8		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:___KALPANA JAIN___________________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT: FINANCIAL MANAGEMENT MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1- STRATEGIC FINANCIAL MANAGEMENT	Introduction. Corporate Planning Financial Planning Profit Maximization Wealth Maximization Relationship of Finance to Economics and Accounting Role of Financial Manager	06	Khan and Jain	Chalk and Duster
2- CAPITAL BUDGETING - PROJECT PLANNING AND	Introduction Capital Budgeting Process Techniques of Capital Budgeting Evaluation Capital Rationing Risk Evaluation In Capital Budgeting	12	Prasanna Chandra	Chalk and Duster

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RISK ANALYSIS	Risk Management Practical Questions			
3- CAPITAL STRUCTURE THEORIES AND DIVIDEND DECISIONS	Introduction Cost of Capital Practical Questions on Cost of Capital Introduction to Capital Structure Theories Net Income Approach Modigliani -Miller (MM) Approach Trade-Off Theory Pecking -Order Theory Traditional Approach	12	Dr.S.P.Gupta	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_Pranali Prabhakar Gurav _________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V

SUBJECT:Financial Management. MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1.Mutual Fund and Bond Valuation Introduction to Mutual Fund- History & Origin, Definition, Meaning, Characteristics Advantages, Disadvantages, Limitations of Mutual Funds, Ethics in Mutual Fund Entities involved - Sponsor, Trust, Trustee, Asset Management Company, Registrar and Transfer Agent (RTA) and Fund Houses in India. Classification of Mutual Fund Functional/OperationalInterval, Calculations of NAV, Entry Load and Exit Load. Bond Valuation - Meaning, Measuring Bond Returns - Yield to Maturity, Yield to calland Bond Pricing. Bond Pricing Theorems, Bond Risks and Bond Duration. (Practical Problems on YTM and Bond Duration.)	15	seth publications and Manan prakashan	Chalk and Board

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Financial Manageme nt	**Credit Management** Credit Management Terms of Payment, Credit Policy Variables, Credit Evaluation, Credit Granting Decision, Control of Accounts Receivables ie Receivables Management, Ageing Schedule and Credit Management in India	15	Seth publication s and Manan prakashan	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Gauri Yadav DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: V SUBJECT:

MONTH: June to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
5.INPUT TAX CREDIT & COMPUTATION OF GST	ELIGIBILITY CONDITIONS FOR ITC, APPORTIONMENT OF CREDIT & BLOCKED CREDITS ,CREDIT IN SPECIAL CIRCUMSTANCES, COMPUTATION OF GST UNDER INTERSTATE & INTRASTATE SUPPLY ILLUSTRATION	19	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	CHALK-BOARD
6.REGISTRATION	Person liable for registration, Person not liable for registration, Procedure for Registration, Deemed Registration, Amendment, Cancelation and Revocation of Registration, Illustration.	13	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	CHALK-BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 32

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Heena Obaid Qureshi DEPARTMENT: Commerce CLASS: SYBBI. SEMESTER: IV SUBJECT:Cost Accounting

MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE:The learner will able to understand the concept and accounting process of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introductions to Cost	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
2	Classification of Cost	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
3	Marginal Costing	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board

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4	standard Costing	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
5	cost sheet			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:_______REENA BEHERA_______________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
INDIAN ECONOMY MODULE I,II,III,IV	1. Introduction, Agricultural Sector Introduction Demographic Features – Poverty, Income inequality and Unemployment Urbanization and its effects Agricultural Sector Institutional Structure – Land reforms in India Technological changes in agriculture Agricultural pricing and agricultural finance Agricultural marketing National agricultural policy 2. Industrial Sector	4 lectures per week DIV A,B,C	V.K. Puri S.K. Misra: Indian Ecomomy Datt & Sundaram: Indian Economy Uma Kapila: Indian Economy	Chalk and Duster Method Group Discussion Task Assignment ICT Tools usage

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	Growth and pattern of industrialization Industrial Policy of 1991, Public sector enterprises and disinvestment policy Small scale sector – problems and prospects 3. Service Sector, External Sector Service Sector Nature and scope of service industry Recent trends in Banking industry, Insurance Industry, Healthcare Industry and Tourism Industry External Sector Structure and Directions of Foreign Trade India’s Balance of Payments since 1991 FDI, foreign capital and transnational companies in India. Role and impact of SAARC, ASEAN and WTO 4. Money and Banking Money Market and its Features Monetary Policy of RBI Progress of Commercial Banking in India Development of Capital Markets SEBI and its Functions			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ankita Asis Almeida DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI SUBJECT: Financial Accounting VII MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:

1. To understand the concept of the below given topics
2. To solve numerical problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit 1 : Final Account for Electricity Company			
Financial Accountin g – VII	1) Final Accounts as per Double Account System Final Accounts as per Electricity Rules Receipt & Expenditure on Capital Account General Balance Sheet Contingency Reserve 2) Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus 3) Replacement of Assets **Practical Problems (08)**	08	Manan Prakashan	Chalk & Duster, Group Discussion.

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	Unit 2: Final Account for Co-operative Society **(Co-operative Housing Society and Consumer Co-operative Society)** 1. Provisions of Maharashtra State Co-operative societies act and rules. 2. Format of Final Accounts- Form N 3. Simple Practical problems on preparation of Final Accounts of a co-operative housing society & consumer co-operative society. **Practical Problems (08)**	08	Manan Prakashan	Chalk & Duster, Group Discussion.
	Unit 3 : Investment Accounting (w.r.t. Accounting Standard- 13) 1) For shares (variable income bearing securities) 2) For debentures/Preference. shares (fixed income bearing securities) 3) Accounting for transactions of purchase and sale of investments with ex and cum 4) interest prices and finding cost of investment sold and carrying cost as per 5) weighted average method (Excl. brokerage). 6) Columnar format for investment account.	08	Manan Prakashan	Chalk & Duster, Group Discussion.
	Unit 4: Mutual Funds. 1. Introduction, historical background , SEBI guidelines, NAV scheme , types of mutual fund schemes, FOF schemes, Load or non load scheme. 2. Investment valuation norms, pricing of units, contents of balance sheet and revenue account, evaluation of mutual funds, disposal of investments, recognition of income, accounting policies and entries. **Practical Problems (07)**	04	Manan Prakashan	Chalk & Duster, Group Discussion.

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	Unit 5: Introduction to IFRS 1) Accounting standards 2) Indian Accounting standards (Ind AS) 3) Comparison of Ind AS, IFRS and AS	03	Manan Prakashan	Chalk & Duster, Group Discussion.

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 31

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 1 Business Valuation	Conceptual Framework of Valuation – Book Value, Market Value, Economic Value, Liquidation Value, Replacement Value, Salvage Value, Value of Goodwill and Fair Value Approaches of Valuation – Assets Based Approach to Valuation, Earnings Based Approach to Valuation , Earnings Measure on Cash Flow Basis, Market Value Added Approach and Economic Value Added.	7	Financial Management By Ravi M Kishore	Chalk Board And Discussion Method
	Practical Illustrations	8		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT 2 Mergers and Acquisitions	Introduction- Basic modes of acquiring another firm, Synergy effects, Difference between Merger and Takeover, Advantages of Mergers and Acquisitions, Benefits of Merger for Acquiring firm, Reasons of companies to offer themselves for sale, Reasons for failure of Mergers and Reverse Merger. Commonly Used Bases for determining the Exchange Ratio – EPS, MPS, Book value and Combination of Measures and Evaluation of Mergers	7	Financial Management By Ravi M Kishore	Chalk Board And Discussion Method
	Practical Illustrations	8		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 3 **Corporate Restructuring and Takeovers**	**Introduction – Meaning, Need and Importance, Forms of Restructuring, Advantages and Disadvantages Takeovers – Meaning, SEBI Guidelines, Anti-takeover defences and Asset and Liability Restructuring.**	**7**	**Financial Management By Ravi M Kishore**	**Chalk Board And Discussion Method**
	Practical Illustrations	**8**		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 4 **Lease and Hire Purchase Financing**	**Introduction – Meaning and Types of Leases, Rationale, Mechanics, Operating Leases, Leasing as Financing Decisions, Calculation of Cash flows of a finance lease. Hire Purchase – Meaning, Need and Importance, Calculation of Hire Purchase instalments. Choice between Leasing and Hire Purchase**	**7**	**Financial Management By Ravi M Kishore**	**Chalk Board And Discussion Method**

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	Practical Illustrations	**8**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:______TARIKA PATEL___________ DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: FINANCIAL MANAGEMENT MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : The main objectives is to help students to acquire and develop skill to take rational decisions in Business Financing.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – 5 **Working Capital financing**	**Introduction – Key features and Characteristics of Trade Credit, Bank Credit, Commercial Papers, Certificate of Deposits and Factoring. Practical Problems based on Factoring and calculations of yield of CP's and CD'se**	**10**	**Financial Management** **By**	**Chalk Board** **And** **Discussion Method**

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				Ravi M Kishore	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____10___

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.PAYMENT OF TAX & REFUNDS	PAYMENT OF TAX,INTEREST AMOUNT	01	TEXTBOOK (MANAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	TDS, TCS, REFUND OF TAX, INTEREST ON DELAYED PAYMENTS, Types of Returns and Provisions relating to filing of Returns	04		
	INTEREST ON DELAYED REFUNDS	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2.ACCOUNTS, AUDIT, ASSESSMENT & RECORDS	ELECTRONIC WAY BILL,SELFASSESSMENT,	01	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	Scrurinty of returns, non-filler of returns	02		
	ASSESSMENT OF UNREGISTERED PERSON, ASSESSMENT IN SPECIAL CASES, special audit,	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
3. .CUSTOM ACT- I	INTRODUCTION TO CUSTOM LAWS, EXEMPTION FROM CUSTOM DUTY, TAXABLE EVENT	02	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	CHARGES OF CUSTOM DUTY, TYPES OF CUSTOM DUTIES,	02		
	VALUATION OF IMPORTED & EXPORTED GOODS	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 06

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV DEPARTMENT: Accounting and Finance CLASS: TYBAF SEMESTER: VI

SUBJECT: INDIRECT TAXES MONTH: November to May ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to:
Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4. CUSTOM ACT-II	ALL IMPORT EXPORT PROCEDURES, PROCEDURE RELATED TO BAGGAGE	04	TEXTBOOK (MANSPECIAL AUDITAN PRAKASHAN,SHETH PUBLICATION), ICAI -IPCC BOOKS	• Chalk • Board • Discussion • Google classroom
	GOODS IMPORTED & EXPORTED BY POST & STORES, PROVISIONS RELATING TO COASTAL GOODS	04		
	WAREHOUSING & DRAWBACK	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Heena Obaid Qureshi DEPARTMENT: Commerce CLASS: SYBBI. SEMESTER: IV SUBJECT:Cost Accounting

MONTH: DEC-MARCH ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE:The learner will able to understand the concept and accounting process of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introductions to Cost	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
2	Classification of Cost	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
3	Marginal Costing	10	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board

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4	standard Costing	5	ICAI Boos/Mananprakashan/Sheth publication	Chalk -Board
5	cost sheet			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ambari Patwardhan DEPARTMENT: SFC CLASS: FYBBI (A, B, C) SEMESTER: II MONTH: December to April ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law
The learners will be able to : The pupils will be able to learn about the contract Act, where they will learn the concept of contract, essentials and types and rules regarding the contract

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Introduction to Law	Meaning, Definitions , Features, Types, Sources and classification	**1**		Black board, chalk
Indian constitution	Natural justice, special leave appeal, features writs fundamental rights	**2**		
Indian Contract Act 1872	Definition of contract and agreement, Essentials of valid contract, Classification of Contract	3	Indian contract Act by Cr. Avatar singh	Black board, chalk
	Offer , Acceptance- Rules for valid offer and Acceptance, types of offer, Revocation of offer and acceptance	3		
	Capacity to Contract – Minor, unsound mind, disqualified person	2	Indian contract Act by Cr. Avatar singh	Black board, chalk

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	Consideration – concept, importance, No consideration No contract Rule.	2		
	Consent, Free consent – Coercion, undue influence, mistake, misunderstanding.	2	Indian contract Act by Cr. Avatar singh	Black board, chalk
	Void Agreements, Contingent Contract, Quasi Contract,	2		Black board, chalk
	Modes of discharge of contract, breach of contract , Remedies for breach	2	Indian contract Act by Cr. Avatar singh	
Special Contracts	Indemnity and Guarantee, concept, essentials, modes of discharge of surety	2		Black board, chalk
	Bailment- concept, essentials, kinds, rights and duties of bailor and bailee , Pledge	2	Indian contract Act by Cr. Avatar singh	
	Agency – concept, modes, creation of agency, termination, rights and duties	2		Black board, chalk
Negotiable Instruments Act	Features, Promissory notes, bill of exchange, cheque, features, acceptance crossing, dishonour, holder, holder in due case, penalties for dishonour, endorsement.	5		Black board, chalk
Information Technology Act	Objectives , scheme, digital signature, authorization , e-governance , certifying authorities, digital certificate, cyber	2		Black board, chalk

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Dattaram Gurav DEPARTMENT: Self Finance CLASS: T.Y.BBI (Division A, B, C) SEMESTER: VI

MONTH: November to February ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to:

1) Understand & Remember- Concept of Cost Accounting

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Audit of Limited Companies	Qualifications, Disqualification	02	Book by Manan publications/Internet	Chalk & Board
	Audit report	02	Book by Manan publications/Internet	Chalk & Board
	Liabilities of Auditor, Duties, Rights	04	Book by Manan publications/Internet	Chalk & Board
Unit 2: Audit of Banking Companies	Financial statements, Appointment, remuneration, qualification, internal control system	6	Book by Manan publications/Internet	Chalk & Board
Unit 3: Audit of Insurance Companies	AS 3, 4, 9, 13, 17 Books & registers to be maintained	6	Book by Manan publications/Internet	Chalk & Board
Unit 4: New Areas of Auditing	Human resource management, management audit, tax audit, social audit, Forecast audit Audit in EDP Environment	6	Book by Manan publications/Internet	Chalk & Board
Unit 5: Professional	Schedules to the chartered accountants act, 1949	4	Book by Manan publications/Internet	Chalk & Board

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Ethics & Misconduct				

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Sivapriya Achari   DEPARTMENT: Commerce   CLASS: FYBFM

SEMESTER: I   MONTH: July - November   ACADEMIC YEAR: 2022- 2023   SUBJECT: Business Communication

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills. The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills. To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Unit1. Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels : Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
Unit 2 - Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour			
Unit 3 : Business Correspondence	1)Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]	15	Manan Publication, Sheth Publication, Vipul Publication	Online

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Unit 4 : Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities 🖮 Listening Comprehension 🖮 Remedial Teaching 🖮 Speaking Skills: Presenting a News Item, Dialogue and Speeches 🖮 Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling. 🖮 Reading Comprehension: Analysis of texts from the fields of Commerce and Management	15	Manan Publication, Sheth Publication, Vipul Publication	Online

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bristi Gourgopal Biswas DEPARTMENT: Commerce CLASS: F.Y.FM SEMESTER: I (Subject: Business Economics I)

MONTH: August onwards ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: To understand the application of microeconomics at the corporate level.

The learners will be able to: observe microeconomics in the real world and understand and make business decisions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Module I Introduction to business economics	Introduction, Business Economics ,basic concepts for business economic analysis functional relations and tool for economic analysis. Introduction to market demand and supply, demand-supply, market equilibrium, changes in market equilibrium.	10		Chalk and board

Module II **Demand Analysis**	Meaning of demand, the law of demand, determinants of demand, demand function, price, income and substitution effects, nature of demand curve under different markets. Meaning of elasticity, price elasticity of demand, income elasticity of demand , cross elasticity of demand, promotional elasticity of demand, importance of elasticity of demand, and the relationship between price elasticity of demand and revenue concept. Significance of demand forecasting ,types of demand forecasting, steps in demand forecasting ,methods of demand forecasting.	10		Chalk and board
Module III **Supply and production decisions and cost of production**	Concept of production, production function, isoquants ,ridge lines least cost combination of inputs ,expansion path. Types of production function ,law of variable proportions, laws of returns to scale. Meaning of economies and diseconomies of scale, Internal economies and diseconomies of scale, external economies and diseconomies of scale. Cost concepts: money cost, accounting cost and economic cost, fixed , variable and total cost , total , average and marginal cost. Cost function, short run cost output ,relationship between AC, AFC ,AVC and MC, relationship between AC and MC ,short run average cost and output, long run cost output, long run average cost curve ,long run marginal cost curve ,learning curve, long run AC and output. Concept of break even point ,variables influencing the break even point ,business application of break even analysis ,limitations of break even analysis.	12		Chalk and board
Module IV **Market structure perfect competition and monopoly**	Market structure ,types of market ,need to analyse the market structure. Perfect competition meaning and features ,short run equilibrium of the firm, long run equilibrium of the firm, equilibrium of industry and firm.	12		

and pricing and output decisions under imperfect competition	Features of monopoly ,sources of monopoly power, equilibrium of monopoly firm ,comparison between perfect competition and monopoly. Features of monopolistic competition, short run equilibrium of the firm, long run equilibrium of the firm ,selling cost and its effects, role of advertisement. Meaning of oligopoly ,characteristics of oligopoly ,collusive and non collusive oligopoly ,price rigidity ,collusive oligopoly, price leadership.			Chalk and board
Module V **Pricing practices**	Meaning of pricing practices, degrees of price discrimination, conditions for price discrimination, conditions for profitable price discrimination, equilibrium of price discriminating monopolist ,dumping. Introduction to pricing practices part II, marginal cost pricing ,cost plus pricing ,multi product pricing Transfer pricing.	10		Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 54

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PRIYANKA SINGH DEPARTMENT: COMMERCE CLASS : FYBAF SEMESTER: I MONTH : JULY SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : understand the environment and its impact on Business and its activities. This helps the students to meticulously know about the functioning of the Business and its environment.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1 Business and Environment	Business objectives, dynamics of business objectives types of Business objectives, business environment components of business environment, Environmental analysis, Environmental scanning ,PESTLE Analysis SWOT Analysis	15	Business Environment by Justin Paul	Chalk and Duster
Unit 2 Business and Society	Business Ethics Nature and scope of ethics, Ethical dilemmas,Corporate Culture,Ethical climate Development of Business Entrepreneurship Entrepreneurship and business development, MSMED Act 2006, Entrepreneurship as career option Consumerism and Consumer Protection Consumerism in India and Consumer Protection Act 1986	15	Business Environment by Justin Paul	Chalk and Duster
Unit 3 Contemporary issues	Corporate Social responsibility, Responsibility towards Business and Society, Ecology, Carbon Credit, Kyoto Protocol Social Audit, Social Audit v/s Commercial Audit	15	VEENA KESHAV PAILWAR- BUSINESS ENVIRONMENT	Chalk and Duster

Unit 4 International Environment	Strategies for going global MNC's , TNC's and WTO Foreign Trade in India BOT, FDI, its implications	15	VEENA KESHAV PAILWAR-BUSINESS ENVIRONMENT	Chalk and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT 1 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE CLASS: FYFM

SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Define Ratio, Continued Ratio, and Inverse Ratio and solve the questions based on these terms.
- Understand the concept of Proportion, Continued Proportion, Direct Proportion and Inverse Proportion.
- Solve the questions based on different types of Proportion and relate the situations in day to day life.
- Understand the concept of Variation, Inverse and Direct Variation and also how to differentiate between Proportion and Variation.
- Learn the meaning of Percentage and computation of Percentage.

PAPER, UNIT, TITLE			SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS MATHEMATICS	Ratio, Proportion & Percentage	Unit1	▪ Define Ratio, Continued Ratio, Inverse Ratio ▪ Problem solving on ratio ▪ Define Proportion its types. ▪ Problem solving on proportion ▪ Explanation on concept of percentage and computation of percentage.	1 1 1 1 1	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 5

TEACHING PLAN (UNIT 2 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Define Profit and Loss and terms related to it.
- Understand the formula of Trade discount and cash discount.
- Learn and understand the concept of Commission and Brokerage.
- Focus on how to use these terms in day to day life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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BUSINESS MATHEMATICS	Profit and Loss	Unit2	▪ Introduction to formula of Profit, Loss, %profit ,%loss ▪ Solve problems based on the above formulas ▪ Introduction to terms like trade discount, cash discount. ▪ Exercise based on cost price, selling price, trade discount, cash discount. ▪ Introduction to terms like Commission and brokerage. Solving problems based on commission and brokerage	1 2 1 2 1	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT’s

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 07

TEACHING PLAN (UNIT 3 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

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- Define Simple and Compound interest and its formula.
- Understand the concept of this topic and learn how to use in day to day life.
- Learn meaning of EMI, annuity and its types, also calculation of present and future value.

PAPER, UNIT, TITLE			SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS MATHEMATICS	Interest and Annuity	Unit3	▪ Introduction to the formula of Simple interest and sums based on it. Introduction to the formula of Compound interest and sums based on it monthly, quarterly, .half yearly and yearly. ▪ Introduction and sums based on EMI, reducing balance and flat rate of interest. ▪ Introduction to annuity and its types, calculation of present value and future value by using its formula. ▪ Concept on Stated annual rate and effective annual rate and solving sums based on it.	2 2 2 2	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

TEACHING PLAN (UNIT 4 PLAN)

NAME OF THE STAFF: SWETLANA G DIAS DEPARTMENT: SELF-FINANCE

CLASS: FYFM SEMESTER: I MONTH: AUGUST-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to:

- Learn the concept of face value, market value, dividend, equity shares, bonus shares, preference shares.
- Solve the questions based on buying and selling of shares with and without brokerage.
- Define net asset value of mutual funds, entry/exit load
- Understand the concept of Systematic Investment Plan (SIP).
- Solve simple problems on calculation of net income after considering entry load and exit load change in net asset value and SIP.
- Focus and how to apply this knowledge in day to day life

.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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BUSINESS MATHEMATICS	Shares and Mutual Funds	Unit4	▪ Concept of Shares, Face value, market value, dividend. Explanation of types of Shares. ▪ Sums based on Shares ▪ Concept of Mutual Funds and its types Calculation of net income after considering entry load and exit load ▪ Change in net asset value and problems based on it. ▪ Concept of SIP and sums based on it.	2 3 1 2 2	Business Mathematics (Manan ,Vipul , Sheth Publications)	LECTURE METHOD, DISCUSSION , PROBLEM SOLVING, ASSIGNMENT. TEACHING AIDS : whiteboard, Duster, PPT's

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: FYBFM

SEMESTER: I MONTH: September to November ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the concepts and practicals on Financial Statements
2) Understand the Preparation of Final Accounts of manufacturing concern and partnership firm

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 3. Introduction to Financial Statements	Bank Reconciliation statements Treatment of Capital & Revenue Depreciation Accounting; methods of recording depreciation and methods of providing depreciation as per AS-4	15	Vipul publication,seth publication	Board,Chalk ,internet
Unit 2 Preparation of Final Accounts	Final Accounts of Sole Traders- Manufacturing Account, Trading, Profit & Loss Account and Balancesheet Final Accounts of Partnership Firm, Manufacturing Account, Trading, Profit & Loss Account and Balancesheet.	15	Vipul publication,seth publication	Board,Chalk,internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:GAURI YADAV. DEPARTMENT: COMMERCE   CLASS:. FYFM   SEMESTER: I.

MONTH: AUG - DEC   ACADEMIC YEAR : 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1. NATURE & PURPOSE OF ACCOUNTIN G				
	Meaning and scope of Accounting: Need, development & Definition of Accounting, persons interest in Accounting disclosure, branches of accounting Accounting concepts and Accounting Standards	10	Sheth publication	Chalk & Duster
2.BOOKS OF AC	Journals, ledger, subsidiary books Trial Balance, Financial Accounting framework . Sums solved Q.1 to Q.6	20	Sheth publications,Manan prakashan	Chalk & Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____Prof.Sivapriya Achari____SELF FINANCE______________ DEPARTMENT: ___FY BFM_________________________ CLASS: ___1st_________ SEMESTER: ___Semester I____________ MONTH: ___August______________ ACADEMIC YEAR: ____2022/2023

____

LEARNING OBJECTIVE/S:
The learners will be able to : _chalk and board

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1, 2and 3	1.Overview of Indian Society. Understand the multi cultural diversity of Indian society Through its demographic compostion. Religion,Caste,Gender,linguistics diversity etc 2.Concept of Disparity..1 Understand the concept of disparity,Female ,Women In media,Physical and Mental disabilities. 3.Concept of Disparity…2			

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	Examine inequalities manifested due to caste system ,communalism,Regionalism and linguistic difference.			
		8	Manan book	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____8_____

Sivapriya Achari

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Dr.Roshani Nagar DEPARTMENT: Commerce CLASS: FYBFM SEMESTER : SEM I MONTH: Aug,Sep,Oct

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : To focus on the importanat aspects of preamble and study about the indian constitutions.

To study about the political process in India perspective.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4. Indian Constitution	Philosophy of the Constitution as set out in the Preamble; The structure of the Constitution-the Preamble, Main Body and Schedules;	10	Rashmi , deepa and reshma Parab	Chalk and Duster method
	Fundamental Duties of the Indian Citizen; tolerance, peace and communal harmony as crucial values in strengthening the social fabric of Indian society; Basic features of the Constitution.4			
5. Significant Aspects of Political Process	The party system in Indian politics; Local self-government in urban and rural areas.	10		
	73rd and 74th Amendments and their implications for inclusive politics; Role and significance of women in politics			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **DEEPA PRADEEP DALVI** DEPARTMENT: COMMERCE CLASS: FY BFM

SUBJECT: INTRODUCTION TO FINANCIAL SYSTEM SEMESTER: I MONTH: AUGUST TO OCTOBER ACADEMIC YEAR: 2022-23 .

LEARNING OBJECTIVE/S:
The learners will be able to : To understand and gain the knowledge of Financial system

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I – Overview of Financial System	**Introduction to Financial System -** Overview, Meaning, Functions, Evolution of Financial System , Financial System in India compared in those with developed nations and developing nations, constitution of financial system and interrelationship between various components.	**15**	Indian Financial System – M Y Khan	CHALK AND TALK METHOD
UNIT III – Financial Regulators	Meaning and features of Financial regulators, Role and Functions , Types of financial regulators , Market regulated by each regulator.	15	Indian Financial System – Bharati Pathak	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: Commerce CLASS: F.Y.BFM
SUBJECT: INTRODUCTION TO FINANCIAL SYSTEM SEMESTER: I MONTH: August-December ACADEMIC YEAR: 2022-2023

A teaching plan is a document that outlines the structure and details of a single session. A good teaching plan is a comprehensive write-up of the step-by-step teaching methods, the estimated duration of each segment of teaching, and the materials and resources needed for the session.

LEARNING OBJECTIVE/S:

By the end of the session Students will be able to:

Understand the concept of Money markets, Regulatory framework of money markets, Markets instruments, and recent development in money markets.

(For a detailed description of each component see Appendix A).

APPENDIX {A}

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT2 Financial Markets	a] Introduction to financial market	03	Book by Manan publications/Internet	Chalk & Board
	b] Classification of Financial Markets	04	Book by Manan publications/Internet	Chalk & Board

Total no of lecture 07

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UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 Financial Instruments	a] Financial Instruments & its classification	03	Book by Manan publications/Internet	Chalk & Board
	b) innovation in financial instruments	03	Book by Manan publications/Internet	Chalk & Board
	c] Evaluation of Financial Instruments	03	Book by Manan publications/Internet	Chalk & Board

Total no of lecture 09

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJECT – BUSSINESS COMMUNICATION – II **SEMESTER:** II **MONTH:** January 2023 **ACADEMIC YEAR:** 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

1) To introduce key concepts of communication. To understand the various aspects of communication.
2) To make students aware with functional and operational use of language in organization
3) To enhance students writing and presentation skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1) Presentation Skills	4 Principles of Effective Presentation Effective use of OHP Effective use of Transparencies How to make a Power-Point Presentation	15	PPT	Online Lectures on Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJCT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** February 2023 **ACADEMIC YEAR:**2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2) Group Communication	**Interviews:** Group Discussion, Preparing for an Interview, Types of Interviews – Selection, Appraisal, Grievance, Exit **Meetings:** Need and Importance of Meetings, Conduct of Meeting and Group Dynamics, Role of the Chairperson, Role of the Participants, Drafting of Notice, Agenda and Resolutions **Conference:** Meaning and Importance of Conference, Organizing a Conference **Modern Methods:** Video and Tele – Conferencing	12	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A)

SUBJECT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** March 2023 **ACADEMIC YEAR:** 2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
2) Group Communication	**Public Relations:** Meaning, Functions of PR Department, External and Internal Measures of PR	03	PPT	Online Lectures through Google Meet
3) Business Correspondence	Letters of Inquiry, Letters of Complaints, Claims, Adjustments Sales Letters, Promotional Leaflets and Fliers, Consumer Grievance Letters, Letters under Right to Information (RTI) Act	15	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MR. SNEHAL S PATIL **DEPARTMENT**: COMMERCE (SELF FINANCE) **CLASS:** FYFM (DIV- A

SUBJECT – BUSSINESS COMMUNICATION - II **SEMESTER:** II **MONTH:** April 2023 **ACADEMIC YEAR:** 2022-2023

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
4) Language and Writing Skills	**Reports:** Parts, **Types -** Feasibility Reports, Investigative Reports **Summarisation:** Identification of main and supporting/sub points, Presenting these in a cohesive manner	15	PPT	Online Lectures through Google Meet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT II MEASURES OF CENTRAL TENDENCY	Criteria for Good Measures of Central Tendency, Arithmetic Mean, Median, Mode for Grouped and Ungrouped Data, Combined Mean	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure   DEPARTMENT: Mathematics   CLASS: FYFM

SEMESTER: SEM II   MONTH: Jan-April   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT III MEASURES OF DISPERSION	Concept of Dispersion, Absolute and Relative Measures of Dispersion, Range Variance, Standard Deviation, Coefficient of Variation, Quartile Deviation, Coefficient of Quartile Deviation	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT IV CORRELATION AND REGRESSION	Concept of Correlation, Positive and Negative Correlation, Karl Pearson's Coefficient of Correlation, Meaning of Regression, Two Regression Equations, Regression Coefficients and Properties.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pournima Sachin Khanapure DEPARTMENT: Mathematics CLASS: FYFM

SEMESTER: SEM II MONTH: Jan-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
BUSINESS STATISTICS UNIT V LINEAR PROGRAMMING PROBLEM	Meaning of LPP Formulation of LPP, Solving LPP graphically.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and board

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Rajput DEPARTMENT: Commerce (SFC) CLASS: F.Y.B.F.M SEMESTER: II

MONTH: November - March ACADEMIC YEAR: 2022- 2023 SUBJECT: Computer Skills- I

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge of Computer Hardware, Windows Operating System, Application of Internet, MS Word and MS Excel.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Computer Hardware	A) Personal Computers- identification/demonstration of different storage Devices like CD and CD drive, hard disk- HDD, storing and retrieving data from various storage devices.	04	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Identification of various input and output devices. Primary memory, RAM and ROM- Processor- CPU, its speed- machine cycle, ports, computer buses, Different types of printers.	04		
	C) Introduction to trouble shooting of personal computers.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Windows	A) Introduction, features, various versions of windows, My computer, my documents, recycle bin, network neighborhood.	05	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Start menu, taskbar, file and folder operation (creating, copying, moving, deleting), system tools, creating shortcuts.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Internet	A) What is internet, most popular internet services, functions of internet like email, WWW, FTP, UseNet, Instant messaging.	05	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk and Duster
	B) Internet telephony, using address book, working with task list, scheduling appointments, reminders, events.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV Word – 2013	A) Getting started, The Word window, New documents, Document navigation, Editing text, Working with text, Undo and Redo commands, Cut, copy, and paste, Find and replace Text formatting,.	03	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk, Duster And Computer (MS-Word Software)
	B) Character formatting, Tab settings, Paragraph formatting, Paragraph spacing and indents Tables, Creating tables, Working with table content, Changing the table structure Page layout, Headers and footers.	04		
	C) Page setup Graphics, Adding graphics and clip art, Working with graphics Proofing, printing, and exporting, Spelling and grammar, AutoCorrect, Printing and exporting documents.	03		
	Practical: - Create Window- Cut, Copy, Paste, Find & Replace Text Formatting, Header & Footers, Adding graphics and clip art, Spelling and grammar in Word - 2013.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - V Excel- 2013	A) Fundamentals of Excel, Cut, Copy, Insert, Delete, Paste Special, Custom Formatting, Undo, Redo.	03	Computer Skills - I By Rimple Sanchla and www.wikipedia.com	Board , Chalk, Duster And Computer (MS- Excel software)
	B) Excel Formulas – Basic, Useful functions and Paste Function, Calc, Comments, Drawing toolbar, Edit, Replace, Delete, Clear.	03		
	C) Essential Printing, Data Sorting, Hiding, AutoFormats, Protection, Basic Charts, Basic Formatting, If Function.	04		
	Practical: - Create Spreadsheet in Excel - 2013, Create Table- Insert & Delete Records, Basic Excel Formulae, Cut, Copy, Paste & Basic Charts in Excel-2013.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Janhavi V. Raut DEPARTMENT: Commerce (SFC) CLASS: F.Y.B.F.M SEMESTER: II

MONTH: November - March ACADEMIC YEAR: 2022- 2023 SUBJECT: Environmental Science

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge about Environment and its Science & Environmental Management System . Even create better understanding about the Environmental Science.

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Environment : An Overview	A) Environment : structure, components and typology	04	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & interactive method
	B) Ecosystem as part of environment	04		
	C) Biodiversity	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Natural Resources	A) Natural Resources: Definition, Importance & classification	03	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & Interactive method
	B) Utilization & conservation of natural resources	04		
	C) Natural Resources & Associated problems	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Environment & Economic Activities	A) Nature of economic activities	04	Book by Sheth publication & Vipul publications	Board , Chalk and Duster & Interactive method
	B) Environmental & Economic Activities and associated problems	02		
	C) case studies on impact of human activities on environment	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 08

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PAPER, UNIT, TITLE	SUB TOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT – IV Environment Management	A) Environmental Management – concept & Need	03	Book by Sheth publication & Vipul publications	Board , Chalk, Duster And Interactive method
	B) Tool of Environmental Management, Environmental Impact Assessment, Environmental Audit	04		
	C) Role of technology in Environment management – GIS, GPS, Remote sensing as tools	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 11

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pranali Gurav**______________________ DEPARTMENT: **Commerce_**__________

CLASS: **_FYBFM_A**________ SEMESTER: **Sem II**_______ MONTH: **_ Nov** to April______ ACADEMIC YEAR : **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Preparation of Financial Statements as per Companies Act.
2) Cash Flow Analysis as per AS 3
3) Introduction to IFRS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Financial Accounting II	Unit : 1 SHARES AND DEBENTURES:	15	Manan & Vipul Publication	Chalk Board.
	1. Issue of Shares and Debentures. 2. Types of Shares and Debentures (in India). 3. Accounting Treatments for Issue of Shares and Debentures with New Market and SEBI			
	Unit 2 : CORPORATE ACCOUNTING:	15	Manan & Vipul Publication	Chalk Board.
	1. Capitalisation of Reserves and Issue of Bonus Shares. 2. Preparation of Corporate Financial Statements in Vertical Form.			
	Unit 3 : SHARE VALUATION:	15	Manan & Vipul Publication	Chalk Board.

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	1. Valuation of Shares. 2. Buyback of Shares and Own Debentures? 3. Investment Accounting.			
	Unit 4 : INDIAN ACCOUNTING STANDARDS:	15	Manan & Vipul Publication	Chalk Board.
	1. AS, GAAP and their Impact on Income Statement and Balance Sheet. 2. Latest Development: Computerization of Accounting and Softwares.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: NEHA VAIBHAV TAMBE DEPARTMENT: Commerce CLASS: F.Y.BFM
SUBJECT: FOUNDATION COURSE II SEMESTER: II MONTH: December- March ACADEMIC YEAR: 2022-2023

A teaching plan is a document that outlines the structure and details of a single session. A good teaching plan is a comprehensive write-up of the step-by-step teaching methods, the estimated duration of each segment of teaching, and the materials and resources needed for the session.

LEARNING OBJECTIVE/S:

By the end of the session Students will be able to:

The general education curriculum will enable students to acquire skills, knowledge, and experience for living in interconnected context so they can contribute to making life better for others, themselves and the larger world.

(For a detailed description of each component see Appendix A).

APPENDIX {A}

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Globalisation & Indian Society	**Concepts of liberalization, privatization and globalization**	2	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Growth of information technology and communication and its impact manifested in everyday life	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Impact of globalization on industry: changes in employment and increasing migration	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

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	Changes in agrarian sector due to globalization; rise in corporate farming and increase in farmers' suicides.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 05

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 Human Rights	a]Concept of Human Rights.	01	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	b] Evolution of Human Rights	02	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	c] The Universal Declaration of Human Rights	03	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHO
	d] Fundamental Rights in Constitution	04	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD

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Total no of lecture 10

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 Ecology	a] Concept of environment & ecology	02	Book by Manan publications/Internet	1. CHALK & BLACK BOARD METHOD 2. .INTERACTIVE METHOD
	b] Importance of environmental studies, Environment as a Natural capital & quality of human life	03	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD
	c] Environmental Degradation. i. Causes ii. Impact on human life	02	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • .INTERACTIVE METHOD
	d] Sustainable Development i. Concept ii. Components	02	Book by Vipul publication/internet	• CHALK & BLACK BOARD METHOD • 2 .INTERACTIVE METHOD

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	e] Poverty & Environment	01		• 1.CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 10

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 Understanding Stress & Conflicts	**Causes of stress & Conflicts in individual & society,**	1	Book by Manan publications/Internet	Online
	Agents of Socialization & the role played by them in developing the individual.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Significance of values, ethics & prejudices in developing the individuals.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Stereotypying & prejudice as significant factors in causing conflicts in society.	1	Book by Manan publication/internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

SIG1NATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	Aggression & Violence as the public expression of conflicts.	1	Book by Manan publication/internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 05

UNIT TITLE	Components	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 Managing stress & conflict in Contemporary Society	**Types of conflicts and use of coping mechanisms for managing individual stress**	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD
	Maslow’s theory of self-actualisation,	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

SIG1NATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

	Different methods of responding to conflicts in society, Conflict Resolution, & Efforts towards building peace & harmony in society.	1	Book by Manan publications/Internet	• CHALK & BLACK BOARD METHOD • INTERACTIVE METHOD

Total no of lecture 03

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: AMBARI PATWARDHAN DEPARTMENT: COMMERCE CLASS: SYBFM

SEMESTER: III MONTH: JUNE - OCTOBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law

The learners will be able to: The Pupils Will be able to understand the concept of Contract , its types and essentials , concept of goods, it's types, contract of sale, and other related provisions, As well as they will be able to understand the concept of negotiable instrument ,it's types, and other related provisions and specific contracts

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Indian Contract Act 1872	Definitions :- Agreement, types of agreement, Contract, types of contract , valid, void, voidable, contingent, and quasi contract and e-contract. Difference between agreement and contract.	**08**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
	Offer definition, election of valid proposal or offer, counter offer, standing or open offer, difference berween offer and invitation to offer acceptance- definition, essentials of valid contract, promise, communication of offer and acceptance and revocation	**04**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
	Capacity to contract, consent and free consent, consideration and void agreement	**03**	Indian Contract Act 1872 by Dr.Avtar Singh	Chalk , Board and Duster
Specific contract Act	Law of Indemnity and Grarantee Law of Bailment and Plegde	**04**	Indian Contract Act 1872 by	Chalk , Board and Duster

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	Law of Agency		Dr.Avtar Singh	
	Chapter I Introduction, definitions, formalities of contract of sale, Distinguish between sale and agreement to sell Hire Purchase agreement.	04	Principles of law Of sale of goods Dr Avatar Sing	Chalk , Board and Duster
The Sale of Goods Act, 1930	Chapter II Conditions and Warranties, Doctrine of Caveat Emptor	03		Chalk , Board and Duster
	Chapter III Transfer of property in goods-meaning and rules governing The same, transfer of risk	03	Chalk	Board and Duster
	Chapter IV Meaning of the term unpaid seller and rights of an unpaid seller, auction sale	03		Chalk , Board and Duster
The Negotiable Instruments Act,1881	Chapter I Meaning and characteristics of Negotiable Instruments, Classification of Negotiable Instruments	03		Chalk , Board and Duster
	Chapter II Promissory Note and Bill of Exchange, essential elements, Distinguish between Promissory note and bill of exchange, Acceptance and acceptor, absolute and Qualified acceptance, Drawer, drawee in case of need,	04		Chalk , Board and Duster

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	payee, dishonor			
	Chapter III Cheques, crossing of cheques, distinguish between Bill of Exchange and cheque, penalties in case of dishonour of cheques	03		Chalk , Board and Duster
	Chapter IV Miscellaneous provisions(sections8-10,22,99-102,118-122,134-137)Holder and Holder in due course, Rights and Privileges of a holder in due course ,Payment in Due course ,maturity of an instrument ,Bill in sets	03		Chalk , Board and Duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Princy Tinish DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF COMMODITY MARKETS IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3- COMMODITY EXCHANGES	Function and Role Trading and clearing methods Commodity future Commodity Specific Exchange v/s Multi Commodity Exchange.	15	Commodity Exchange Concept, Tools, Guideline By Issouf Soumaré	CHALK AND BOARD
UNIT 4- STRENGTHENING COMMODITY MARKETS IN INDIA	Role of Government Role of Commodity Exchange Other institutions Training and Development of Dealers.	15	Commodity Exchange Concept, Tools, Guideline By Issouf Soumaré	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Priyanka **Bangera** DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF COMMODITY MARKETS IN INDIA

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction to Commodity Market	• Emergency of Commodity Market • Dynamic of Global Commodity Market.	12	Vipul Commodity Market -S.P Das	CHALK AND BOARD
UNIT 2 - COMMODITY MARKETS IN INDIA	• Commodity Exchange in India • Role of Information in commodity Market • Linkages between Equity and commodity Market. • Commodity Market -Logistics and warehouse.	15	Vipul Commodity Market -S.P Das	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 27

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Priyanka Devnath_Rajput DEPARTMENT: Commerce (Self – Finance) CLASS: S.Y.B.F.M (DIV A & B)

SEMESTER: III MONTH: July - October ACADEMIC YEAR: 2022- 2023 SUBJECT: Computer Skills - II

LEARNING OBJECTIVE/S:
The learners will be able to: To gain the knowledge of Excel, Data Base Management System, Different system of E-Business Software and Online Banking.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - I Advanced Spreadsheet	Pivot Table.	01	Computer Skills - II By Rimple Sanchla And www.Guru99.com https://www.guru99.com/excel-tutorials.html	Board, Chalk, Duster And Computer (MS- Excel Software)
	Advanced formulae.	03		
	Lookups.	02		
	Macros.	02		
	Working with other programs.	02		
	Inserting a spreadsheet sheet in word document.	01		
	Modifying an inserted spreadsheet.	01		
	Inserting a linked chart in a Word Document.	01		
	Inserting graphic in a spreadsheet.	02		
	Practical: Pivot, Advance Formulae, Lookups, Macros, Inserting linked chart in a word document	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - II Data Base Management System	Concepts.	01	Computer Skills - II By Rimple Sanchla And www.Guru99.com https://www.guru99.com/dbms-tutorial.html	Board , Chalk, Duster and Computer Software
	Tables.	02		
	Fields.	02		
	Datatypes.	03		
	RDBMS.	03		
	Primary Key.	02		
	Foreign Key.	02		
	Practical: - Create Table, Primary Key, Foreign Key, Insert Data, Delete table.	05		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - III Modern E Business Software Systems	Introduction.	01	Computer Skills - II By Rimple Sanchla And www.wikipedia.com	Board , Chalk and Duster
	Enterprise Resource Planning – ERP.	03		
	Supply chain Management- SCM.	02		
	Customer Relationship Management- CRM.	02		
	Sales Force Automation- SFA.	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT - IV Other Emerging Technologies	Other emerging technologies	03	Computer Skills - II By Rimple Sanchla And www.wikipedia.com	Board , Chalk and Duster
	Net-banking	03		
	Online banking software	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Priyanka Bangera DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF EQUITY MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2- Primary Market	• IPO - Methods followed, Book Building, Offer for sale • Role of Merchant bankers in fixing the price • Red – Herring Prospectus – it's unique features • ASBA and its features • Green Shoe option • Sweat equity, ESOP • Rights issue of shares, Non voting shares ,ADR, GDR,IDR	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD
UNIT 4- Importance of Equity Markets in developing country like India	• Need for attracting more investors towards equity • Need for strengthening secondary markets • Link between Primary Market and Secondary Market.	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: VASANTHI SHENOY DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III

MONTH: June to October ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : SCOPE OF EQUITY MARKET

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction	• Meaning and Definition of equity shares • Growth of corporate sectors and simultaneous growth of equity shareholders • Divorce between ownership and management in companies • Development of equity culture in India • Current position	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD
UNIT 3- It for Equity Secondary Market	• Definition and Function of stock exchange • Evolution and growth of stock exchange • Stock exchange in India • NSE, BSC, OTCEI, and overseas stock exchange • Recent development in stock exchange merger of SEBI with FOMC • Stock market Indices	15	Vipul Equity Market - Jia Makhija	CHALK AND BOARD

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

SIGNATURE OF THE STAFF **SIGNATURE OF THE H.O.D.**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. SEEMA SIHANA_______________________DEPARTMENT:__SELF FINANCE___________

CLASS __S.Y.B.F.M SEMESTER:_III_________MONTH: _JUNE-OCTOBER 2022 ACADEMIC YEAR: __2022-23_______

LEARNING OBJECTIVE/S: The subject of Money Market is very important as it provides vital information about opportunities for investment as well as capital formation to investors, job seekers and to the students. It helps to transform from traditional savers to smart investors.

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course–III (Money Market) Unit I, II, III,and IV	**Module I- Introduction to Money Markets** Meaning of money market, Features of money market, Importance of money market, Role of Primary dealers, Development of trade and industry, Development of capital market, Smooth functioning of commercial banks, Effective Central Bank Control, Formulation of suitable monetary policy, Source of finance to government.	15	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	Module II- Regulatory Framework of Money Markets	15	**Text book,** Internet	
	Regulatory framework of RBI, FIMMDA (Fixed Income, Money Market and Derivatives Association) and FEDAI (Foreign Exchange Dealers Association of India), NDS-OM Web.			1.Chalk and Black Board Method 2 Example 3 Discussion
	. **Module III- Money Market Instruments** **Conventional:- Treasury bills, Money at call and Short Notice in the Call Loan market, Commercial bills, Promissory notes in the bill market.**	15	Text book, Internet	1.Chalk and Black Board Method 2 Example 3 Discussion

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	Modern:- Commercial papers, Certificate of Deposit, Inter-bank Participation Certificates, Repo instrument, Banker's Acceptance. **Money Market Mutual Fund:- Meaning, advantages, disadvantages, Regulatory framework for money market mutual funds, various money market funds operational in Indian market.**			
	Module IV- Recent Developments in Money Market Integration of Unorganised sector with the Organised sector, Widening of call money market, Introduction of Innovative Instrument, Offering of market rates of interest, Promotion of bill culture, Entry of money market mutual funds, Setting up of credit rating agencies, Adoption of suitable monetary policy, Establishment of DFHI, Setting up of Security Trading Corporation of India Ltd (STCI).	15	Text book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	TOTAL LECTURES:-	60		

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Bhakti Vilas Purandare DEPARTMENT: Self Finance CLASS: S.Y.BFM SEMESTER: III MONTH: June to October

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Understand & remember the concept of Ratio Analysis, Understand & remember the concept of Working Capital Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3 – **Cash flow statement**				
	Meaning of cash inflow and cash outflow Operating activities with examples	04	Book by Manan publications/Internet	Chalk and Board
	Financial activities with examples Investment activities with examples	04	Book by Manan publications/Internet	
	Question on cash flow Management	04		
		01	Book by Manan publications/Internet	
Unit 5- **Working Capital Management**	Concept, Nature of Working Capital , Planning of Working Capital	01	Book by Manan publications/Internet	Chalk and Board
	Estimation / Projection of Working Capital Requirement in case of Trading and Manufacturing Organization	01	Book by Manan publications/Internet	
	Operating Cycle Practical Problems	02	Book by Manan publications/Internet	Chalk and Board

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	Sums	02	Book by Manan publications/Internet	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __JUNE __ ACADEMIC YEAR: ________2022-23___

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 Introduction to Management Accounting	Meaning and Definition of Management Accounting, Nature and Frame work	1	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Functions of Management Accounting, Decision Making Process	1		
	Information of Decision making (Information, Strategic, tactical and operational information)	1		
	Financial Accounting v/s Management Accounting , Qualities of Management Accounting	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____5____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __JULY- AUGUST__ ACADEMIC YEAR: ________2022-23

LEARNING OBJECTIVE/S:

The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 2 Analysis and Interpretation of Accounts	Introduction and importance of Financial statements, Vertical form of Balance sheet and Profit and loss Account suitable for analysis	3	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Simple sums based on Analysis of Financial Statement	3		
	Format and Calculation Tricks of Trend Analysis Comparative Statement Common size Statement Practical Illustration	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __10____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SUREKHA BAHARGAV SUBJECT: MANAGEMENT ACCOUNTING DEPARTMENT: ____COMMERCE___

CLASS: ____SYBFM____ SEMESTER: _____III_____ MONTH: __AUGUST - SEPTEMBER ACADEMIC YEAR: _2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Accounting concepts which will help learner to apply those accounting techniques in this competitive world.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 Ratio Analysis and Interpretation based on Vertical Financial Statements	Introduction and Meaning of Financial statement analysis, Steps, objectives , Types of Analysis, simple sums on financial statement	3	Management Accounting By I.M Pandey	• Chalk • Board • Discussion • Examples
	Ratio Analysis- Meaning, Classification , DU Pont chart, Advantages and limitations.	2		
	Balance sheet ratio, Revenue statement Ratio and Combined Ratio (Applications of formulas)	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____8____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: SYBFM

SEMESTER: III MONTH: August to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the concept of portfolio analysis
2) Understand and remember the concept of Portfolio Revision and performance management

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 1. Portfolio Analysis	Analysis: Diversification, portfolio risk and return, single index model, The sharpe index model, Portfolio Beta Selection: Markowitz Risk- Return optimization, concept of utility, Sharpe optimization model, Geometric mean model, Safety First model, Stochastic Dominance Model.	8	Vipul publication	Board,Chalk
Unit 2 .Portfolio Revision and performance management	Revision: Portfolio rebalancing, portfolio upgrading, Formula plans, constant ratio plan, variable ratio plan, selection and revision of equity portfolio Performance measurement: Methods of calculating rate of return, Money weighted rate of return, Time weighted rate of return, Linked internal rate of return, Buying the index approach, Sharpe's- Treynor's – Jensen's	10	Vipul publication	Board,Chalk

	performance measure of portfolio.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _ANKITA ARUN RAUT__________________________ DEPARTMENT: ___ACCOUNTANCY______________

CLASS: ____SYBFM_____ SEMESTER: __III___________ MONTH: __JUNE-NOV___ ACADEMIC YEAR: __2022-23____________

LEARNING OBJECTIVE/S:
The learners will be able to : _Learn meaning of Portfolio Management, Investment process, Process of asset allocation, portfolio Mang. Strategies, etc__.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	**Introduction To Portfolio Management** Investment process, Investment Categories, defining investment goals and objectives, investment constraints. Process of asset allocation, different approaches to allocation decision, overview of allocation techniques.	12	Vipul Prakashan Internet	Chalk & Duster Internet
2	**Portfolio Management Strategies** Active Strategy, passive strategy, semi active strategy, duration shift and immunization, efficient market hypotheses, top down and bottoms up.	12	Vipul Prakashan Internet	Chalk & Duster Internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____24_____

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NAME OF THE STAFF: LEJESH KELOTH DEPARTMENT: COMMERCE (SELF-FINANCE) CLASS: SYBIM

SEMESTER: III MONTH: NOV-MARCH ACADEMIC YEAR: 2022 – 23

LEARNING OBJECTIVES:
The learners will be able to understand the concept of using macroeconomics for the growth of the economy by developing a core understanding regarding income, expenditure, measurement, and trade cycles, demand and supply of money and levels of inflation for the development of the economy.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENC E/S	TEACHING METHOD/ ICT TOOLS USED
Business Economics – II Macro Economics Unit: I, II & III IV,V	Unit I: Overview of Macro Economics - Circular flow of income in open an closed economy - Measurement of National Product , Green GNP and NNP - Trade cycle: features and phases - Say's Law of Market	3	H.L.Ahuja Modern Economics	PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion
	Unit II: Money, Prices and Inflation - Money supply determinants and factors - Demand for money, classical and Keynes approach and also Friedman approach - Money & Prices Fisher and Cambridge equation - Inflation: types, nature, Policy Measures	4	D.N.Diwedi Macro Economics	

	Unit III: Introduction to Public Finance - Meaning, Scope and Major Fiscal Functions			
	UNIT 3; **Public revenue, Public Expenditure and Debt Sources of Public Revenue:** tax and non-tax revenues Objectives of taxation - Canons of taxation - Types of taxes: direct and indirect - Tax Base and Rates of taxation: proportional, progressive and regressive taxation Shifting of tax burden: **Impact and incidence of taxation** - Processes- factors influencing incidence of taxation Economic Effects of taxation: on Income and Wealth, Consumption, Savings, Investments and Production. Redistributive and Anti – Inflationary nature of taxation and their implications **Public Expenditure**: Canons - classification - economic effects of public spending - on production, consumption, distribution, employment and stabilization – Theories of Public Expenditure: Wagner's Hypothesis and Wiseman Peacock Hypothesis - Causes for Public Expenditure Growth. Significance of Public Expenditure: Social security contributions- Low Income Support and Social Insurance Programmes. **Public Debt** : Classification - Burden of Debt Finance : Internal and External Public Debt and Fiscal Solvency	4	AHUJA .H.L, MODERN	PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion

		4	ECONOMI C BHATIA H.L PUBLIC GINANCE	
	UNIT 4			
	Fiscal Management and Financial Administration Fiscal Policy: Meaning, Objectives, constituents and Limitations. Contra cyclical Fiscal Policy and Discretionary Fiscal Policy : **Principles of Sound and Functional Finance Budget**- Meaning objectives and types - Structure of Union budget - Deficit concepts- **Fiscal Responsibility and Budget Management Act.** Intergovernmental Fiscal Relations : fiscal federalism and fiscal decentralization - central-state financial relations – 14th Finance Commission recommendations	5		PPT LECTURE VIA GOOGLE MEET, Google classroom, quiz, test, online discussion

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ambari Patwardhan DEPARTMENT: SFC CLASS: SYBFM SEMESTER: IV MONTH: December to April

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: Business Law
The learners will be able to : The pupils will be able to learn about theformation of various entities like compant partnership and LLP Act, where they will learn the concept of IPR, essentials and types and rules regarding the such entities

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Companies Act 2013	Definition, advantages – disadvantages of company , types	4	The Companies Act by Cr. Avatar singh	Black board, chalk
	Lifting of corporate Veil, Documents and procedure for incorporation of company, Effect of Incorporation	3		
	Membership of company	2	The Companies Act by Cr. Avatar singh	Black board, chalk
	Memorandum of association and Article of association	2		
	Prospectus , Meaning, contents, types and legal framework	2	The Companies Act by Cr. Avatar singh	Black board, chalk
	Directors, types, DIN , legal position. Advantages and disadvantages , women directors , managing directors	2		Black board, chalk

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	Meetings , types e-voting	2	The Companies Act by Cr. Avatar singh	
IPR	IPR rights in India and types, Patents- meaning, features, conditions, opposition to grant patents , expiration of Patent, remedies available	2		Black board, chalk
	Copyright- Meaning, registration, term of copy right, what works are protected infringement and remedies.	2	The Companies Act by Cr. Avatar singh	
	Trademarks – Meaning, types, registration process, infringement and remedies, passing off, services marks	2		Black board, chalk
Indian Partnership Act	Definition, types, test of partnership, partnership deed, property of the firm dissolution of partnership	3		
LLP 2008	Definition, body corporate, salient features, Nature , difference between LLP and partnership, conversion, winding up and dissolution of LLP	3		
Securities Contract Act	Securities- terms of listing, - delisting , Appellate tribunal, recognition, bye-laws, types of contracts, securitaization-reconstruction of financial assets	4		
SEBI	SEBI – objectives, establishment, powers and functions , accounts audit, penalties, registration Issues of disclosure investors protection guidelines.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __________

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TEACH.ING PLAN (UNIT PLAN)

NAME OF THE STAFF: PROF. MADHURA ARVIND SURVE DEPARTMENT: COMMERCE CLASS: SYFM SEMESTER: IV (CD) MONTH: DECEMBER-FEBRUARY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: TO MAKE STUDENTS AWARE ABOUT DERIVATIVES.

The learners will be able to: COMMODITY DERIVATIVES AND THEIR BENEFIT

PAPER, UNIT, TITLE	SUBTOPICS		NO OF LECTURES ALLOTED	REFERENCE/S	
UNIT I, II, III & IV	**1.Introduction of Derivatives:** Derivatives definition, Types of derivatives, Products, Participants and Functions, Exchange traded v/s OTC Derivatives How Commodity Derivatives differ from financial Derivatives- Warehousing, Quantity of underlying assets, Global Commodity Exchanges, Commodity Exchanges in India, Commodities permitted for trading, Kabra committee Report, Commodity specific issues – Cropping and Growth patterns, Global Domestic demand supply dynamics, Price trends and Factors that influence prices.		15	VIPUL PRAKASHAN SETH PUBLICATION, INTERNET	1. CHALK 2. INTERA
	2. Pricing Commodity Derivatives:		15	VIPUL PRAKASHAN, SETH	1. CHALK 2. INTERA

	Investment assets v/s Consumption assets - The Cost of Carry Model Pricing futures contracts on investment commodities- Pricing futures contracts on consumption commodities-The futures basics- Concept of Hedging, Speculation, Arbitrage.			PUBLICATION INTERNET	
	3. Trading: Basic Concepts. Basic concepts such as Margins, Circuit filters delivery norms- Contracts specifications, Trading system, and Entities in the trading system, Trader workstation, Order types and conditions, Exposure limits, Commodities to be traded: Types of commodities: Bullion (silver and Gold), Agricultural commodities. Clearing settlement and Risk Management Calendar and Settlement schedule, Position determination, Settlement mechanism, Daily mark to market settlement, Settlement price- Daily settlement price, Final settlement price, Margining - Initial margin, Daily mark to Market margin, Open interest limits, Second line of Defense, NSCCL span. Final Settlement: Cash settlement, Physical settlement (warehousing). Exception handling: Funds shortages, Delivery shortages.		15	VIPUL PRAKASHAN, SETH PUBLICATION, INTERNET	1. CHALK 2. INTERA
	<u>4. Regulatory Framework:</u> Rules governing Commodity derivatives-Derivatives Exchange, Rules Governing intermediaries, Investor Grievances, Arbitration		15	VIPUL PRAKASHAN, SETH PUBLICATION, INTERNET	1. CHALK 2. INTERA

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KALPANA JAIN** DEPARTMENT**:** ACCOUNTANCY CLASS: **S.Y.B.F.M.**

SEMESTER: **IV** MONTH: November **- February** ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S : To explain the concepts of Corporate Finance.

The learners will be able to :understand the concepts in simple way which will help them to understand the importance of it in Practical life.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit I Corporate Finance -An Overview	***Functions of Finance in a Business enterprise** ***Emergence of Corporate Finance as an Integral part of Business Finance.** ***Need for professional approach in managing corporate finance.** ***Need for professional approach in managing corporate finance.** ***Role and Functions of a corporate finance Manager** ***Requirements of an efficient Corporate Finance Manager.**	02 02 02 02 01 02	Financial Derivatives – C.S.Divyesh Patel	Chalk-Board Method
Unit II Planning the Corporate Financial Activities	*Theories of Capitalisation. *Difference between Owned Capital and Borrowed Capital. * Cost of Capital * Practical problems based on Cost of Capital *Marginal Costing *Marginal cost Statement and Formulas *Break -Even Analysis	01 01 01 05 01 02 01	Options,Futures and Other	Chalk-Board Method

	*Practical problems on Marginal Costing	05		

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Unit III Capital Structure Unit-IV Sources and Method of Raising Corporate Finance	*Meaning and Definition of Capital Structure *Factors affecting Capital structure -Trading on Equity. *Concepts of Watered Capital,Over-Capitalisation and Under-Capitalisation. *NPV,IRR,DCF Analysis and Payback Period. * Practical problems on calculation of EPS *Practical problems on calculation of NPV,IRR,PI and Payback Period. *Types and features of Corporate Securities. *Management of New issues including Pricing of securities. *Role of Commercial Banks and Investment Banking Financing the Corporate Sector. *Leasing as a method of Corporate Finance. *Practical problems	01 01 02 03 05 05 02 02 03 02 06	Derivatives – John C Hull Sankarshan Basu	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNITS: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **MS. SEEMA SIHANA**______________________DEPARTMENT: **SELF FINANCE**__________

CLASS __**S.Y.B.F.M** SEMESTER: **II**________**MONTH**: _NOVEMBER - MARCH 2023 ACADEMIC YEAR: __**2022-23**______

LEARNING OBJECTIVE/S: **Gives insight to students about working and importance of equity and debt markets in depth.**

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
EQUITY MARKETS II	**Module I- Developments in Indian Equity Market:-** **Domestic Savings and Investments.** **Disinvestments, FDI and Foreign Portfolio Investment (FPI).** **Role of Retail Investors.** **Share Price and Share Price Volatility.** **Role of SEBI.**	**15**	**Text Book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**
	Module II- Valuation of Equities:-	**15**	**Text book and Internet**	
	Factors affecting Share Prices. **Balance Sheet Valuation.** **Dividend Discount model (Zero growth, constant growth and Multiple growth)**			**1.Chalk and Black Board Method** **2 Example** **3 Discussion**
	Module III- Statistical Analysis of Share Price Movement:- **Efficient Market Hypothesis.** **Stochastic Models.** **Brownian Motion.**	**15**	**Text book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**

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	BETA			
	Module IV- Dealings in Stock Exchanges:- **Role of Brokers.** **Stock Market Quotations.** **Procedure for Buying and Selling.** **BOLT - Online Trading/ NEAT System.** **Clearing and Settlement.** **Order Matching.**	**15**	**Text book and Internet**	**1.Chalk and Black Board Method** **2 Example** **3 Discussion**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SAYLI VAIBHAV PATIL DEPARTMENT: COMMERCE-SELF FINANCE SUBJECT: FOREIGN EXCHANGE (FC)
CLASS: SYBFM SEMESTER: IV MONTH: October- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Receive knowledge or information regarding the unit taught within the time frame with examples which students will be able to develop thus helping them to demonstrate their knowledge and proficiency during exams.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Foreign Exchange Market:	An Introduction FOREX trading volume, FOREX trading locations, Details about major traded currencies, Evolution of foreign exchange ,Market and Foreign Exchange System Market Participants: Banks and Financial Institutions, Merchants, other customers, speculators and hedgers, Central Bank, Forex dealers and market makers and brokers, FOREX – trading and SWIFT Robots	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2: Introduction to Indian Foreign Exchange Market	FOREX market in India: A historical perspective FERA Vs. FEMA, Pre-liberalization Exchange Rate Regime in India and Hawala market	12	Vipul Publications	Lecture method, Discussion method
	Brief introduction to currency convertibility in current and Capital account.	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER,	SUBTOPICS	NO OF	REFERENCE/S	TEACHING METHOD/ ICT

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UNIT, TITLE		LECTURES ALLOTED		TOOLS USED
Unit 3: Operational aspects of foreign exchange market and foreign exchange contracts	a) Floating Rate, Currency Boards &Currency Basket Systems, Brief review on various exchange rate regime, Advantages of free and Fixed Exchange Rate regime, Pros & Cons of managed floating exchange rate regime, Prevalence of Currency Boards Regime, Practice of Currency Basket Regime.	8	Vipul Publications	Lecture method, Discussion method
	b) Foreign Exchange Contracts: Spot and Forward Contracts Cash, Spot trading Trade Date, Settlement PR date Spot trading roll over mechanism. Foreign Exchange Forward contracts, Fixed Maturity Contract, Partially Optional Contract, Fully Optional Contract, Non-Delivery Forward Contracts, Foreign Exchange Futures Contract, Different Dimensions of Foreign Exchange Future, Contract specification trading at National Stock Exchange of India.	7	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4: Foreign Exchange Arithmetic and Risk Management	Types of Exchange Rates Direct Rate, Indirect Rate and Cross Rate Arbitrage- Geographical and triangular Interest Rate- spot Contracts, forward contracts and SWAP Points Risk Management in Foreign Exchange Market- Need and importance of foreign exchange management methods adopted (Spot and forward, arbitrage, cross currency deals, SWAPS, options and futures	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: SAYLI VAIBHAV PATIL DEPARTMENT: COMMERCE-SELF FINANCE SUBJECT: MERCHANT BANKING
CLASS: SYBFM SEMESTER: IV MONTH: October- March ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to: Receive knowledge or information regarding the unit taught within the time frame with examples which students will be able to develop thus helping them to demonstrate their knowledge and proficiency during exams.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1: Introduction to Merchant Banking	Introduction to Merchant banking, Importance, need, functions, Merchant banking services - Project counselling, Loan syndication and Corporate counselling; Pre-issue merchant banking activities - Obtaining stock exchange approvals, action as per SEBI guide lines, Finalizing the appointments with - manager/advisers, Underwriters, Brokers, Bankers, Advertising agency, Drafting and approval of prospectus; Post-issue merchant banking activities – Issue subscription, Allotment of shares, Refunds, Periodical reports to SEBI.	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 2- Initial Public Offering (IPO)	Initial Public Offering - Issuance Process, Role of registrar, SEBI guidelines for IPO eligibility, IPO grading, Draft Red Herring Prospectus (DRHP), Listing agreement, Pricing the issue, Book building process, Allotment; SEBI Guidelines in Drafting the Offer Document; Pre and Post launch activities in IPO, SEBI Guidelines on QIP,	12	Vipul Publications	Lecture method, Discussion method
	Rights and Bond Issues	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3- Issue of DRs, ADRs and CPs	Types and Process of Issuing of Depository Receipts (DRs) - American Depository Receipts (ADRs), Global Depository Receipts (GDRs), European Depository Receipts (EDRs), Indian Depository Receipts (IDRs), ADR structure and norms, Indian Depository Receipts (IDRs) and Guidelines	12	Vipul Publications	Lecture method, Discussion method
	Procedure for issue of Commercial Paper – Credit Rating, Redemption process.	3	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 4: Issue of Bond and Debentures	Procedure for Issue of Bond and Debentures, Foreign currency convertible bonds	15	Vipul Publications	Lecture method, Discussion method

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pushpa Barve SUBJECT: Business Ethics DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July- August ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to : Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT III Shareholders Rights	Rights of Shareholders	3	D.P. Mittal	Chalk & Board, Discussion Google Classroom YouTube Videos
	Challenges of exercising shareholders rights	3		
	Corporate governance and third-party transactions	2		
	Role of investors association in securing shareholders rights	2		
	Role of institutional investors in corporate governance	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Vasanthi Shenoy SUBJECT: Business Ethics & Corporate Governance DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER:V MONTH: June-Oct ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Business Ethics	Role of Board of Directors, Organization climate and structure ethics Addressing ethical dilemmas Code of ethics; ethics committee, ethics training, integrity pact	5	Manuel G. Velasquez	Chalk & Board, Discussion Google Classroom You Tube Videos
UNIT 2 Corporate Governance- Conceptual Framework	Corporate Governance- Conceptual Framework Introduction, need and scope Evolution of Corporate Governance Developments in India Elements of Good Corporate Governance, ESG- Environment Social Governance- Tata Steel Various scams (Sahara,, Enron, Kingfisher, Worldcom, Harshad Mehta, PNB, HSBC, Satyam)	9		
UNIT 3 Corporate Governance Forums and Legislative Framework of	Corporate Governance Forums and Legislative Framework of Corporate Governance in India National Foundation of Corporate Governance	9		

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Corporate Governance in India	Global Corporate Governance forum Listing agreements SEBI Guidelines Companies Act			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 24

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof.Heena Qureshi DEPARTMENT: Commerce CLASS: T.Y.BFM SEMESTER: V MONTH June-Sept

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: to understand about the basics of business valuation
The learners will be able to : learn business valuation and its methods.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1.Basics of valuation 2. Valuation models				
	Introduction, price v/s value, purpose, bias, uncertainties, role of valuation.	15	Business valuation taxmann	PPT,PDF, GOOGLE CLASSROOM, GOOGLE MEET
	Asset based approach, income based approach, discounted cash flow, free cash flow.	20		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: BUSINESS VALUATION DEPARTMENT: COMMERCE

CLASS: TYBFM SEMESTER: V MONTH: JUNE – JULY ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 3 VALUATION OF SELECT TANGIBLE ASSETS	Introduction, meaning of fixed assets, importance of asset valuation.	01	R.L. GUPTA	• Chalk • Board • Discussion • Examples
	Measuring asset value, related cost in relation to fixed asset valuation, self-constructed fixed assets.	02		
	Assets acquired in exchange; fixed assets held for disposal.	01		
	Practical illustration	05		
	B) Valuation of Shares			
	Meaning, Need, Importance, of valuation of shares, Factors affecting valuation of shares, Methods of valuation of shares.	2		
	Practical Illustrations	5		

NUMBER OF LECTURES ALLOCATED TO THE UNIT 4: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. SUREKHA BHARGAV SUBJECT: BUSINESS VALUATION DEPARTMENT: COMMERCE

CLASS: TYBFM SEMESTER: V MONTH: AUGUST - SEPTEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 5 **VALUATION OF GOODWILL AND SHARES**	A) Valuation of Goodwill		**R.L. GUPTA**	• Chalk • Board • Discussion • Examples
	Meaning, Nature, Features, Classes, Elements, Types of Goodwill	1		
	Factors of Goodwill Valuation and Methods of goodwill valuation	2		
	Practical Illustration	5		
	B) Meaning and types of Patents and Copyright,	01		
	Practical illustration	02		

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	Introduction, meaning of Brand, factors, steps, Valuation method of brand,	01		
	Practical illustration	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 5: 16

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashwini Dattaram Gurav DEPARTMENT: Self Finance CLASS: T.Y.BFM SEMESTER: V MONTH: June to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the meaning of Fundamental Research, Technical analysis, Economy Analysis, Industry Analysis
2) Understand and remember Company analysis; Qualitative Dimensions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 3- Fundamentals of Research	Fundamentals of Research	03	Book by Seth publications/Internet	Google Classroom, Chalk and duster
	Economy Analysis	03	Book by Seth publications/Internet	Google Classroom, chalk and duster
Unit 4- Company Analysis	Industry Analysis	03	Book by Seth publications/Internet	Google Classroom, chalk and duster
	Qualitative Dimensions	04	Book by Seth publication/Internet	Google classroom, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 13

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya SUBJECT: Equity Research DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July – Sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT I Introduction to research and research methodology	Introduction of research,	1	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Meaning of research	1		
	Objectives of research	1		
	Features of research	1		
	Importance of research in financial market	1		
	Objectives of research	1		
	types of research	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 7

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya   SUBJECT: Equity Research   DEPARTMENT: Commerce (SFC)

CLASS: TYBFM   SEMESTER: V   MONTH: July – Sept   ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVES:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Introduction, meaning, goals of equity research	**2**		
	Elements And types of equity research, classifications of stock	**3**		
	Market participants,	**1**		
UNIT II Equity research – An overview	role of equity research in capital market & different approaches to equity research	**1**	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Role of research analyst, Responsibilities of research analyst	**1**		
	Basic principles of interaction with client/ companies	**1**		
	Qualities of research analyst	**1**		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Keyur Limbachiya SUBJECT: Equity Research DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER: V MONTH: July – Sept ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT IV Company analysis	History of business V/S future of business	2	Equity research by Kunal Rambhia	Chalk & Board, Discussion
	Reading of financial statement	1		
	Peer comparison	1		
	Dividend and earning history of the company	2		
	Role of corporate actions of the company	2		
	Interest rates and measure of interest rate sensitivity	1		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 9

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: V MONTH: june-july ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to study in depth about global and Indian Derivative Market

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD**
1.INTRODUCTION TO DERIVATIVES	DEFINITION,TYPES PARTICIPANTS,FUNCTIONS	03	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	Chalk- Board
	DEVELOPMENT OF EXCHANDE TRADED DERIVATIVES,GLOBAL DERIVATIVE MARKET,	04		
	EXCHANGE TRADED vs OTC	02		
	L.C GUPTA &J.R VERMA COMMITTEE	04		
	REQUIREMNET OF SUCCESSFUL DERIVATIVE MARKET	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: V MONTH: AUG-SEP ACADEMIC YEAR: 2022-2022

LEARNING OBJECTIVES:

The learners will be able to clearing and settlement procedures in Future and Option Contracts.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
4.CLEARING AND SETTLEMENT OF OPTIONS & FUTURES	FUTURES AND OPTIONS TRADING SYSTEM, TRADE WORK STATIONS	06	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	Chalk Board
	SPECIFICATION FOR STOCK & INDEX ELIGIBILITY FOR TRADING CHARGES	03		
	CLEARING MECHNISM, OPTION-OPEN POSITION CALCULATION	04		
	MARGINING &SETTLEMENT MECHANISM, RISK MANAGEMENT	03		
	MECHNICS OF SPAN,PORTFOLIO MARGIN REQUIREMENTS	04		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 20

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **KALPANA JAIN** DEPARTMENT**:** ACCOUNTANCY CLASS: **T.Y.B.F.M.**

SEMESTER: **V** MONTH: June - September ACADEMIC YEAR: **2022-2023**

LEARNING OBJECTIVE/S : To explain the concepts of Financial Derivatives.

The learners will be able to :understand the concepts in simple way which will help them to understand the trading in stock market.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit II FUTURES	***Introduction,Future Terminology** ***Key Features of Future Cont** **racts** ***Future v/s Forwards** ***Equity Futures** ***Equity Futures in India** ***Index Futures** ***Stock Futures** ***Future Trading Strategies** ***Hedging with example** ***Speculation with example** ***Arbitrage** ***Spread Trading** ***Practical problems**	 01 01 01 01 01 01 01 01 01 01 01 01 03	Financial Derivatives – C.S.Divyesh Patel	Chalk-Board Method
Unit III Options and Pricing Options	*Introduction, Option terminology *Types, Options Payoff *Index Options, Stock Options * Option trading Strategies	01 01 01 01	Options,Futures and Other	Chalk-Board Method

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	*Straddle,Strangles *Strips and Straps-Spread trading *Factors affecting Options Pricing *Option Pricing Models * Binomial Pricing Model with practical problems *The Black Scholes model *Pricing of Index Option *Sensitivity of Option Premia: Delta,Gamma,Lambda,Theta,Rho.	01 01 01 01 03 01 01 02	Derivatives – John C Hull Sankarshan Basu	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNITS: 30

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Pushpa Barve SUBJECT: Marketing of Financial Services DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER:V MONTH: July -August ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT II Marketing Mix	Service Market Segmentation positioning differentiation	3	Philip Kotler	Chalk & Board, Discussion Google Classroom You Tube Videos
	Promotion communication designing managing process	3		
	Constructing service environment managing service	2		
	Service quality and productivity Customer Loyalty	2		
	Customer Relationship Management	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Vasanthi Shenoy SUBJECT: Marketing of Financial Services DEPARTMENT: Commerce (SFC)

CLASS: TYBFM SEMESTER:V MONTH: June-Oct ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to: Imparting an adequate knowledge of the subject matter.

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
UNIT I Service Marketing UNIT 2 Issues in Service Marking UNIT 3 Customer Satisfaction	Foundation of services marketing – Introduction – The services concept – Service Industry – Nature of Service, Characteristics of Services, Classification of Services – Importance of Services Marketing – The Growth in Services – Global and Indian Scenario, Retail Financial Services: Investment Services – Insurance Services, Credit Services – Dimensions and drivers, Institutional Financial Service, Distinctive Characteristics of Services _ Four I's of Services – Intangibility, Inconsistency, Inseparability and Inventory, Managing Service Encounters.	9	Arthur Meidam: Macmillan	Chalk & Board, Discussion Google Classroom You Tube Videos
	Issues in Marketing of Services – Extended Services Marketing Mix : Going Beyond the 4 Ps. (7Ps of Services Marketing). Service Delivery Process – Service Blueprints - Service Mapping – Managing Employees for service orientation. Distribution Strategies of Services – Challenges in Distribution of Services. Personal Selling – Advertising and Sales Promotion in Service	7		

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	Customer Satisfaction & Service Quality in Service Marketing – Service Encounter – Role of HR & Internal Marketing – Monitoring and Measuring customer satisfaction, GAP Model – Handling complaints effectively – Service Failure – Recovery, Use of Internet in Service Marketing, Role of IT in marketing Financial Services, Ethics in Marketing, New trends in marketing, Marketing in 21st Century, Marketing through social networking	5		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 21

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF:Abhishek Vitthal Madaye DEPARTMENT: Self Finance CLASS: TYBFM

SEMESTER: III MONTH: August to September ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Understand & Remember- the Major Theories in TA
2) Understand and remember the concept of Risk Management, Trading Psychology and Trading Strategies

Module no/unit no	contents	No of lectures	Reference used	Medium
Unit 3. Major Theories in TA	Dow Theory and Elliott Wave Theory.	8	Vipul publication,seth publication	Board,Chalk ,internet
Unit 2 Risk Management, Trading Psychology and Trading Strategies	Risk Management – Need, techniques, uses of stop loss, qualities of successful traders, golden rules of traders, do's and don'ts in trading, Rules to stop losing money, Choosing the right market to trade, Importance of discipline in trading; Day trading, Advantages of day trading, Risks associated with trading, Strategies for day trading, Momentum trading strategies.	10	Vipul publication,seth publication	Board,Chalk,internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 18

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _ANKITA ARUN RAUT__ DEPARTMENT: ___ACCOUNTANCY___

CLASS: ____TYBFM_____ SEMESTER: __V_____ MONTH: __JUNE-NOV___ ACADEMIC YEAR: __2022-23_____

LEARNING OBJECTIVE/S:
The learners will be able to : __.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
1	Introduction to technical Analysis Technical analysis, Basic assumptions, strengths and weakness charts, candlestick chart analysis, one two and three candlesticks pattern, support and resistance, Head and shoulders, double & triple top & bottom, Gap Theory	15	Vipul Prakashan Internet	Chalk & Duster Internet
2	Major Indicators and Oscillators Stochastic, RSI, Williams %R, MFI, Bollinger bands, Moving Averages, MACD	10	Vipul Prakashan Internet	Chalk & Duster Internet

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____25______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Pranali Gurav** DEPARTMENT: **Commerce**

CLASS: **_TYBFM_A_** SEMESTER: **Sem VI** MONTH: **December to April** ACADEMIC YEAR : **2022-23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Preparation of Financial Statements as per Companies Act.
2) Cash Flow Analysis as per AS 3
3) Introduction to IFRS

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Corporate Restructuring	Unit : 1 Introduction and Concepts:	15	Manan & Vipul Publication	Chalk Board.
	1. Meaning of Corporate Restructuring. 2. Need, Scope and Modes of Restructuring 3. Historical Background. 4. Emerging Trends. 5. Planning, Formulation and Execution of Various Corporate Restructuring Strategies - Mergers, Acquisitions, Takeovers, Disinvestments and Strategic Alliances, Demerger and Hiving off. 6. Expanding Role of Professionals.			

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	Unit 2 : Merger and Amalgamation, Corporate Demerger and Reverse Merger::	15	Manan & Vipul Publication	Chalk Board.
	1. Introduction to Merger and Amalgamation, Corporate Demerger and Reverse Merger. 2. Legal, Procedural, Economic, Accounting, Taxation and Financial Aspects of Mergers and Amalgamat ionsincluding Stamp Duty and Allied Matters. 3. Interest of Small Investors. 4. Merger Aspects under Competition Law. 5. Cross Border Acquisition and Merger. 6. Concept of Demerger; Modes of Demerger - by Agreement, under Scheme of Arrangement. 7. Demerger and Voluntary Winding Up. 8. Legal and Procedural Aspects; Tax Aspects and Reliefs. 9. Reverse Mergers Procedural Aspects and Tax Implications. 10. Meaning and Concept of Takeover. 11. Types of Takeovers; Legal Aspects - SEBI Takeover Regulations. 12. Disclosure and Open Offer Requirements. 13. Bail Out Takeovers and Takeover of Sick Units. 14. Takeover Defenses. 15. Cross Border Takeovers.			
	Unit 3 : Funding of Merger and Takeover and Financial Restructuring	15	Manan & Vipul Publication	Chalk Board.
	1. Financial Alternatives; Merits and Demerits. 2. Funding through various Types of Financial Instruments including Equity and Preference Shares, Debentures, Securities with Differential			

	Rights, Swaps, Stock Options; ECBS, Funding through Financial Institutions and Banks. 3. Rehabilitation Finance. 4. Management Buyouts/Leveraged Buyouts. 5. Reduction of Capital. 6. Reorganization of Share Capital. 7. Buy-Back of Shares - Concept and Necessity. 8. Procedure for Buy-Back of Shares by Listed and UnlistedCompanies.			
	Unit 4 : Post-Merger Reorganization:	15	Manan & Vipul Publication	Chalk Board.
	1. Factors involved in Post - Merger Reorganization. 2. Integration of Businesses and Operations. 3. Assessing Accomplishment of Post-Merger Objectives; Measuring Post Merger Efficiency.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __60____

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: VI MONTH: DEC-JAN ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to understand different types of risk and risk management process.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
1.INTRODUCTION TO RISK MANAGEMENT	CONCEPT ANDIDENTIFICATION OF RISK,RISK AND UNCERTAINTY	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK-BOARD
	STRATEGIC &OPERATIONAL RISK	02		
	DYNAMIC NATURE OF RISK,FINANCIAL RISK	02		
	BUSINESS RISK	02		
	OBJECTIVES &PROCESS OF RISK MANAGEMENT	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID   DEPARTMENT: COMMERCE

CLASS: T.Y.BFM   SEMESTER: VI   MONTH: JAN-FEB   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to study Risk Measurement, Financial Risk, Country Risk & technological Risk as well.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
2.EVALUATION OF RISK	RISK MEASUREMENT,SOURCES &IMPACT OF COMMON BUSINESS RISK,MARKET ,CREDIT,LIQUIDITY,	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK –BOARD
	TECHNOLOGICAL,LEGAL,ENVIROMENTAL REPUTATION & COUNTRY RISK	02		
	IMPACT UPON THE STAKEHOLDERS,NATURE &IMPORTANCE OF FINANCIAL RISK	02		
	EVALUATION OF FINANCIAL RISK,ALTERNATIVE RISK MANAGEMENT TOOLS,	02		
	ROLE OF RISK MANAGER & RISK COMMITTEE IN MANAGING RISK	02		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 10

SIGNATURE OF THE STAFF   SIGNATURE OF THE H.O.D

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: QURESHI HEENA OBAID DEPARTMENT: COMMERCE

CLASS: T.Y.BFM SEMESTER: VI MONTH: FEB-MARCH ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVES:

The learners will be able to understand the computation of interest rate risk and Bond mathematics.

PAPER,UNIT, TITLE	**SUBTOPICS**	**NO.OF LESTURES ALLOTED**	**REFERENCES**	**TEACHING METHOD/ ICT TOOLS USED**
4.EXCHANGE RATE RISK	INTEREST RATE MARKET	02	TEXT BOOK (VIPUL PRAKASHAN & SHETH PUBLICATION)	CHALK-BOARD
	MATHEMATICS	04		
	IDENTIFYING INTEREST RATE RISK	01		
	ANALYSING INTEREST RATE RISK	02		
	MEASURING INTEREAT RATE RISK	03		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Roshani Nagar DEPARTMENT: COMMERCE CLASS: TYBFM SUB- Venture Capital and private Equity

SEMESTER: VI MONTH: Jan, Feb, Mar ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to understand in detail venture capital and private equity.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1,2,3,4	**1 Conceptual understanding of Venture Capital and Private Equity** Venture Capital –Over View of Venture Capital- Definition- Features- Types –Roles Concept of PE and its characteristics- Definition- Difference between PE,VC and Hedge Funds- Nature of PE Firm- Players in the PE market– Benefit of PE Finance PE Fund –Legal structure and terms- Private Equity Investments and Financing- Private Equity Multiples and Prices- Private Equity Funds and Private Equity Firms- Investment Feature and Consideration **2 Structure and Valuation approaches** Structure and Regulation of Venture Capital and Private Equity- Business Cycle of PE – Structure of VC/PE firms- Limited Liability Partnerships- Routes of VC/PE investments in India- Regulatory Aspects of VC/PE investments Valuation approaches- Risk and Returns- Analysis of Funds- Conventional Method-	10 Lectures in each unit	Jia Makhija	Chalk and board method

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	Revenue Multiplier Method **3 Strategies of Private Equity** Leverage Buyout, Growth Capital, Mezzanine Capital- Distressed Debt, other Strategies Due Diligence- Procedure and Challenges- Due Diligence in Emerging PE Market- Investing in Developing Market- Past Performance and Strategy **4 Exit strategies for Private Equity** Modes of exits in Indian Context and Challenges involved- IPO, Promoter Buyback ,Sale to Other PE funds, Sale to other strategic Investors, Stake Swap, M & A’s, Open Market-, Secondary Market			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 40

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ACADEMIC YEAR 2022-23 (TERM I)

TEACHING PLAN

CLASS: SYBMS SPECIALIZATION: Marketing+HR+FinanceSEM.: III SUBJECT: BP & ENT

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- students will explore entrepreneurial skills and management function of a company with special reference to SME sector.
- Students will identify the type of entrepreneur and the steps involved in an entrepreneurial venture
- students will understand various steps involved in starting a venture and to explore marketing methods & new trends in entrepreneurship.
- Students will understand about the Foundation of Entrepreneurship Development and its theories.

Unit No.	Topic	No. Of Lectures Required
Unit 1	• Foundations of entrepreneurship Development: Concept, need, importance, significance, Characteristics and qualities of entrepreneur • Theories of Entrepreneurship • External Influences on Entrepreneurship Development: Socio-Cultural, Political, Economical, Personal. Role of Entrepreneurial Culture	10
Unit 2	Types and Classification of Entrepreneurs • Intrapreneur, Women Entrepreneur, Social entrepreneurship • Entrepreneurial development Program (EDP) • Option available to Entrepreneurs. (Ancillarisation, BPO, Franchise, M&A)	9
Unit 3	Entrepreneur Project Development & Business Plan • Innovation, Invention, Creativity, Business Idea, Opportunities through change • Idea generation	10

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	● Environmental scanning and SWOT analysis ● Entrepreneurial Venture ● Business Plan ● Critical Risk Contingencies of the proposal, Scheduling and milestones	
Unit 4	Venture Development ● Steps involved in starting of Venture ● Institutional support ● Venture funding ● Marketing ● New trends in entrepreneurship	6
	Total	35

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____________Padma Chari____ DEPARTMENT: _________________BMS___________ CLASS: ___TYBMS________________ SEMESTER: ___V____________ MONTH: _____June2022__________ ACADEMIC YEAR: ___________2022-23________

LEARNING OBJECTIVE/S: To ensure that the learner understand show to hedge his risks, diversifying his portfolio. • To enable the leaner to understand global diversification and hedging against inflation and deflation. • To understand complex financial instruments that are used for various purposes, including hedging.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	Unit-I Basics **1. Introduction to Commodites Market and Derivatives Market (15 Lec.)** (a) Introduction to Commodites Market : Meaning, History and Origin, Types of Commodities Traded, Structure of Commodities Market in India, Participants in Commodities Market, Trading in Commodities in India (Cash and Derivative Segment), Commodity Exchanges in India and Abroad, Reasons for Investing in Commodities (b) Introduction to Derivatives Market : Meaning, History and Origin, Elements of a Derivative Contract, Factors Driving Growth of Derivatives Market, Types of Derivatives, Types of Underlying Assets, Participants in Derivatives Market,	10	Commodity & Derivative Market by Vipul prakashan	Offline-Chalk & board Case studies

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	Advantages and Disadvantages of Trading in Derivatives Market, Current Volumes of Derivative Trade in India, Difference Between Forwards and Futures			
	Unit-II Futures **2. Futures and Hedging (15 Lec.)** (a) Futures : Futures Contract Specification, Terminologies, Concept of Convergence, Relationship Between Futures Price and Expected Spot Price, Basis and Basis Risk, Pricing of Futures Contract, Cost of Carry Model (b) Hedging : Speculation and Arbitrage using Futures, Long Hedge – Short Hedge, Cash and Carry Arbitrage, Reverse Cash and Carry Arbitrage, Payoff Charts and Diagrams for Futures Contract, Perfect and Imperfect Hedge	10		
	Unit-III Options **3. Options and Option Pricing Models (15 Lec.)** (a) Options : Options Contract Specifications, Terminologies, Call Option, Put Option, Difference Between Futures and Options, Trading of Options, Valuation of Options Contract, Factors affecting Option Premium, Payoff Charts and Diagrams for Options Contract, Basic Understanding of Options Strategies (b) Option Pricing Models : Binomial Option Pricing Model, Black-Scholes Option Pricing Model	10		
	Unit-IV **Trading, Clearing and Settlement in Derivatives Market and Types of Risk (15 Lec.)**	10		

	(a) Trading, Clearing and Settlement in Derivatives Market: Meaning and Concept, SEBI Guidelines, Trading Mechanism – Types of Orders, Clearing Mechanism – NSCCL – Its Objectives and Functions, Settlement Mechanism – Types of Settlement (b) Types of Risk : Value at Risk, Methods of calculating VaR, Risk Management Measures, Types of Margins, SPAN Margin			
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___40___

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Marketing** **SEM.: IV**

SUBJECT: Consumer Behaviour
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- Identify the major influences in consumer behaviour
- Establish the relevance of consumer behaviour theories and concepts to marketing decisions
- Implement appropriate combinations of theories and concepts
- Able to define the importance of group effects in consumer behavior
- Able to explain the consumer purchasing decision process.

Unit No.	Topic	No. Of Lectures Required
Unit 1	Introduction To Consumer Behaviour: Meaning of Consumer Behaviour, Features and Importance Types , Profiling the consumer and understanding their needs, Consumer Involvement ,Application of Consumer Behaviour knowledge in Marketing, Consumer Decision Making Process, Behaviour, factors affecting each stage, and Need recognition	09
Unit 2	Individual- Determinants of Consumer Behaviour: Theories - Maslow, Mc Cleland, Personality – Concept, Nature of personality, Freudian, non - Freudian, Self Concept,Consumer Perception, Learning , Attitude	09

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Unit No.	Topic	No. Of Lectures Required
Unit 3	Environmental Determinants of Consumer Behaviour: Family Influences, Roles of different members, Factors affecting the need, Social Class and Influences, Group Dynamics group versus out-group influences, role of opinion, Cultural Influences on Consumer Behaviour	09
Unit 4	Consumer decision making models and NewTrends: Consumer Decision making models: Howard Sheth Model, Engel Blackwell, Miniard Model, Nicosia Models of Consumer Decision Making, Diffusion of innovations Process,E-Buying behaviour	08
	Total	**35**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____________Padma Chari____ DEPARTMENT: ________________BMS__________ CLASS: ___TYBMS(Mkt)_____________ SEMESTER: ___V___________ MONTH: _____June2022___________ ACADEMIC YEAR: ___________2022-23 Sub-ecommerce________

LEARNING OBJECTIVE/S:
The learners will be able to :

To provide knowledge about E Commerce and to prepare the student for vocational competency including training and development of skill. • To encourage the students to do content writing. • To create awareness about the trends and future of E commerce and Digital marketing

The learner can write a blog. • The learner can put up content on social media. • The learner understands the importance of E Commerce

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	Unit-I • Ecommerce- Meaning, Features of E-commerce, Categories of E-Commerce, Advantages &Limitations of E-Commerce, Traditional Commerce &E-Commerce • Ecommerce Environmental Factors: Economic, Technological, Legal, Cultural & Social • Factors Responsible for Growth of E-Commerce, Issues in Implementing ECommerce, Myths of E-Commerce • Impact of E-Commerce on Business, Ecommerce in India • Trends in E-Commerce in Various Sectors: Retail, Banking, Tourism, Government, Education Basis of	10	ECommerce by Vipul Prakashan R. Kalokota, Andrew V. Winston, Electronic Commerce - A Manger's Guide, Pearson Education • Tripathi, E-	Offline chalk & board

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	Product management in E commerce Online Offline – Phygital store Concept of MVP (Minimum Viable Product)		Commerce, Jaico Publishing House, Mumbai, Edn. 2010.	
	Unit-II E-Business: Meaning, Launching an E-Business, Different phases of Launching an EBusiness • Important Concepts in E-Business: Data Warehouse, Customer Relationship Management, Enterprise Resource Planning • Bricks and Clicks business models in E-Business: Applications: E-Procurement, ECommunication, EDelivery, E-Auction, E-Trading. • Electronic Data Interchange (EDI) in E-Business: Meaning of EDI, Benefits of EDI, Drawbacks of EDI, Applications of EDI. • Website: Design and Development of Website, Advantages of Website, Principles of Web Design, Life Cycle Approach for Building a Website, Different Ways of Building a Website LinkedIn content strategy Selling on Online platforms	10		
	Unit-III Issues Relating to Privacy and Security in E-Business • Electronic Payment Systems: Features, Different Payment Systems: Debit Card, Credit Card, Smart Card, E-cash, E-Cheque, E-wallet, Electronic Fund Transfer. • Payment Gateway: Introduction, Payment Gateway Process, Payment Gateway Types, Types of Transaction Security •	10		

	E-Commerce Laws: Need for E-Commerce laws, E-Commerce laws in India, Legal			
	Unit-IV Introduction to Digital Marketing, • Various Activities of Digital Marketing: Search Engine Optimization, Search Engine Marketing, Content Marketing & Content Influencer Marketing, Campaign Marketing, Email Marketing, Display Advertising, Blog Writing, Viral Marketing, Podcasts & Vodcasts. • Digital Marketing on various Social Media platforms. • Online Advertisement, Online Marketing Research, Online PR • Web Analytics • Promoting Web Traffic • Latest developments and Strategies in Digital Marketing	10		
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ___40__

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: _____________Padma Chari____ DEPARTMENT: _________________BMS___________ CLASS: ___TYBMS________________ SEMESTER: ___V____________ MONTH: _____June2022___________ ACADEMIC YEAR: ___________2022-23________

LEARNING OBJECTIVE/S:
The learners will be able to :

To familiarize the student with the fundamental aspects of risk 12 management and control To give a comprehensive overview of risk governance and assurance with special reference to insurance sector To introduce the basic concepts, functions, process, techniques of risk management Outcomes: This curriculum is designed to help students understand and assess various types of risk and identify methods to reduce or mitigate the risk.______

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit-I	(a) Foundation of Corporate Communication Definition, Risk Process, Risk Organization, Key Risks – Interest, Market, Credit, Currency, Liquidity, Legal, Operational (b) Risk Management vs. Risk Measurement Risk Management vs. Risk Measurement, Managing Risk, Diversification, Investment Strategies and Introduction to Quantitative Risk Measurement and its Limitations (c) Principals of Risk Principals of Risk, Alpha, Beta, R squared, Standard Deviation, Risk Exposure Analysis, Risk Immunization, Risk and Summary Measures –	10	Risk Mgt by Vipul prakashan	Offline-Chalk & board

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	Simulation Method, Duration Analysis, Linear and Other Statistical Techniques for Internal Control			
	Unit-II/Derivatives & ERM (a) Risk Hedging Instruments and Mechanism: Forwards, Futures, Options, Swaps and Arbitrage Techniques, Risk Return Trade-off, Markowitz Risk Return Model, Arbitrage Theory, System Audit Significance in Risk Mitigation (b) Enterprise Risk Management: Risk Management vs. Enterprise Risk Management, Integrated Enterprise Risk Management, ERM	10		
	Unit-III/Risk Governance & Risk assurance (a) Risk Governance: Importance and Scope of Risk Governance, Risk and Three Lines of Defense, Risk Management and Corporate Governance (b) Risk Assurance: Purpose and Sources of Risk Assurance, Nature of Risk Assurance, Reports and Challenges of Risk (c) Risk and Stakeholders' Expectations: Identifying the Range of Stakeholders and Responding to Stakeholders' Expectations	10		
	Insurance Industry (a) Insurance Industry: Global Perspective, Regulatory Framework in India, IRDA – Reforms, Powers, Functions and Duties. Role and Importance of Actuary (b) Players of Insurance Business: Life and Non-life Insurance, Reinsurance, Bancassurance, Alternative Risk Trance,	10		

	Insurance Securitization, Pricing of Insurance Products, Expected Claim Costs, Risk Classification (c) Claim Management: General Guidelines, Life Insurance, Maturity, Death, Fire, Marine, Motor Insurance and Calcula			
	—	40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _____40___

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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra
Class & Specialization: SYBMS (MKT)
Semester: III
Subject: Advertising
Date:
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- To understand and examine the growing importance of advertising
- To understand the construction of an effective advertisement
- To understand the role of advertising in contemporary scenario
- To understand the future and career in advertising

Unit No.	Topics	No. of Lectures Allotted
I	Introduction to Advertising • Definition, Evolution of Advertising, Importance, Scope, Features, Benefits, Five M's of Advertising • Types of Advertising –consumer advertising, industrial advertising, institutional advertising, classified advertising, national advertising, generic advertising • Theories of Advertising : Stimulus Theory, AIDA, Hierarchy Effects Model, Means – End Theory, Visual Verbal Imaging, Cognitive Dissonance • Ethics and Laws in Advertising : Puffery, Shock Ads, Subliminal Advertising, Weasel Claim, Surrogate Advertising, Comparative Advertising Code of Ethics, Regulatory Bodies, Laws and Regulation – CSR, Public Service Advertising, Corporate Advertising, Advocacy Advertising • Social, cultural and Economic Impact of Advertising, the impact of ads on Kids, Women and Advertising	15
II	Strategy and Planning Process in Advertising • Advertising Planning process & Strategy : Introduction to Marketing Plan, Advertising Plan- Background, situational analysis related to Advertising issues, Marketing Objectives, Advertising Objectives, Target Audience, Brand Positioning (equity, image personality), creative Strategy, message strategy, media strategy, Integration of advertising with other communication tools • Role of Advertising in Marketing Mix : Product planning, product brand policy, price, packaging, distribution, Elements of Promotion, Role of Advertising in PLC • Advertising Agencies – Functions – structure – types - Selection criteria for Advertising agency – Maintaining Agency–client relationship, Agency Compensation.	15
III	Creativity in Advertising • Introduction to Creativity – definition, importance, creative process , Creative strategy development – Advertising Campaign – determining the message theme/major selling ideas – introduction to USP – positioning strategies – persuasion and types of advertising appeals – role of source in ads and celebrities as source in Indian ads – execution styles of presenting ads. • Role of different	15

	elements of ads – logo, company signature, slogan, tagline, jingle, illustrations, etc – • Creating the TV commercial – Visual Techniques, Writing script, developing storyboard, other elements (Optical, Soundtrack, Music) • Creating Radio Commercial – words, sound, music – scriptwriting the commercial – clarity, coherence, pleasantness, believability, interest, distinctiveness • Copywriting: Elements of Advertisement copy – Headline, sub-headline, Layout, Body copy, slogans. Signature, closing idea, Principles of Copywriting for print, OOH, essentials of good copy, Types of Copy, Copy Research	
IV	Budget, Evaluation, Current trends and careers in Advertising • Advertising Budget – Definition of Advertising Budget, Features, Methods of Budgeting • Evaluation of Advertising Effectiveness – Pre-testing and Post testing Objectives, Testing process for Advertising effectiveness, Methods of Pretesting and Post-testing, Concept testing v/s Copy testing • Current Trends in Advertising : Rural and Urban Advertising, Digital Advertising, Content Marketing (Advertorials), retail advertising, lifestyle advertising, Ambush Advertising, Global Advertising – scope and challenges – current global trends • Careers in Advertising : careers in Media and supporting firms, freelancing options for career in advertising, role of Advertising Account Executives, campaign Agency family tree – topmost advertising agencies and the famous advertisements designed by them	15
		60

Signature of the staff **Signature of the H.O.D**

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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra
Class & Specialization: SYBMS (MKT)
Semester: III
Subject: FC III (Environmental Management)
Date:
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- To understand and examine the growing importance of environment
- To understand the role of resources in contemporary scenario

Unit No.	Topics	No. of Lectures Allotted
I	**Environmental Concepts:** • Environment: Definition and composition, Lithosphere, Atmosphere, Hydrosphere, Biosphere • Biogeochemical cycles - Concept and water cycle • Ecosystem & Ecology; Food chain, food web & Energy flow pyramid • Resources: Meaning, classification(Renewable & non-renewable), types & Exploitation of Natural resources in sustainable manner	15
II	**Environment degradation** • Degradation-Meaning and causes, degradation of land, forest and agricultural land and its remedies • Pollution – meaning, types, causes and remedies (land, air, water and others) • Global warming: meaning, causes and effects. • Disaster Management: meaning, disaster management cycle. • Waste Management: Definition and types -solid waste management anthropogenic waste, e-waste & biomedical waste (consumerism as a cause of waste)	15
III	**Sustainability and role of business** • Sustainability: Definition, importance and Environment Conservation. • Environmental clearance for establishing and operating Industries in India. • EIA, Environmental auditing, ISO 14001 • Salient features of Water Act, Air Act and Wildlife Protection Act. • Carbon bank & Kyoto protocol	15
IV	**Innovations in business**- an environmental perspective Non-Conventional energy sources- Wind, Bio-fuel, Solar, Tidal and Nuclear Energy. Innovative Business Models: Eco-tourism, Green marketing, Organic farming, Ecofriendly packaging, Waste management projects for profits ,other business projects for greener future	15
		60

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VIVA COLLEGE, Virar (W)
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Department of Management Studies (BMS)

Teaching Plan (Term-I, 2019-2020)

Name of the Teacher: Swati Sonagra

Class & Specialization: TYBMS (MKT)

Semester:V

Subject: Sales and Dist

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To develop understanding of the sales & distribution processes in organizations
- To get familiarized with concepts, approaches and the practical aspects of the key decision making variables in sales management and distribution channel management

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction** a) Sales Management: • Meaning, Role of Sales Department, Evolution of Sales Management • Interface of Sales with Other Management Functions • Qualities of a Sales Manager • Sales Management: Meaning, Developments in Sales ManagementEffectiveness to Efficiency, Multidisciplinary Approach, Internal Marketing, Increased Use of Internet, CRM, Professionalism in Selling. • Structure of Sales Organization – Functional, Product Based, Market Based, Territory Based, Combination or Hybrid Structure b) Distribution Management: • Meaning, Importance, Role of Distribution, Role of Intermediaries, Evolution of Distribution Channels. c) Integration of Marketing, Sales and Distribution	15
II	**Market Analysis and Selling** a) Market Analysis: • Market Analysis and Sales Forecasting, Methods of Sales Forecasting • Types of Sales Quotas – Value Quota, Volume Quota, Activity Quota, Combination Quota • Factors Determining Fixation of Sales Quota • Assigning Territories to Salespeople b) Selling: • Process of Selling, Methods of Closing a Sale, Reasons for Unsuccessful Closing • Theories of Selling – Stimulus Response Theory, Product Orientation Theory, Need Satisfaction Theory • Selling Skills – Communication Skill, Listening Skill, Trust Building Skill, Negotiation Skill, Problem Solving Skill, Conflict Management Skill • Selling Strategies – Softsell Vs. Hardsell Strategy, Client Centered Strategy, Product-Price Strategy, Win-Win Strategy, Negotiation Strategy • Difference Between Consumer Selling and Organizational Selling • Difference Between National Selling and International Selling	15
III	**Distribution Channel Management** • Management of Distribution Channel – Meaning & Need • Channel Partners-Wholesalers, Distributors and Retailers & their Functions in Distribution Channel, Difference Between a Distributor and a Wholesaler • Choice of Distribution System – Intensive, Selective, Exclusive • Factors Affecting Distribution Strategy –	15

	Locational Demand, Product Characteristics, Pricing Policy, Speed or Efficiency, Distribution Cost • Factors Affecting Effective Management Of Distribution Channels ♣ Channel Design ♣ Channel Policy ♣ Channel Conflicts: Meaning, Types – Vertical, Horizontal, Multichannel, Reasons for Channel Conflict ♣ Resolution of Conflicts: Methods – Kenneth Thomas's Five Styles of Conflict Resolution ♣ Motivating Channel Members ♣ Selecting Channel Partners ♣ Evaluating Channels ♣ Channel Control	
IV	**Performance Evaluation, Ethics and Trends** a) Evaluation & Control of Sales Performance: • Sales Performance – Meaning • Methods of Supervision and Control of Sales Force • Sales Performance Evaluation Criteria- Key Result Areas (KRAs) • Sales Performance Review • Sales Management Audit b) Measuring Distribution Channel Performance: • Evaluating Channels-Effectiveness, Efficiency and Equity • Control of Channel – Instruments of Control – Contract or Agreement, Budgets and Reports, Distribution Audit c) Ethics in Sales Management d) New Trends in Sales and Distribution Management	15
		60

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VIVA COLLEGE, Virar (W)
NAAC accredited "B" Grade, 2.69 CGPA

Department of Management Studies (BMS)
Teaching Plan (Term-I, 2019-2020)

Name of the Teacher: SWATI SONAGRA

Class & Specialization: TYBMS (HR)

Semester:V

Subject: STRATEGIC HUMAN RESOURCE MGT

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

- To understand human resource management from a strategic perspective
- To link the HRM functions to corporate strategies in order to understand HR as a strategic resource
- To understand the relationship between strategic human resource management and organizational performance
- To apply the theories and concepts relevant to strategic human resource management in contemporary organizations
- To understand the purpose and process of developing Human Resource policies

Unit No.	Topics	No. of Lectures Allotted
I	**SHRM - An Overview** • Strategic Human Resource Management (SHRM) – Meaning, Features, Evolution, Objectives, Advantages, Barriers to SHRM, SHRM v/s Traditional HRM, Steps in SHRM, Roles in SHRM - Top Management, Front-line Management, HR, Changing Role of HR Professionals, Models of SHRM – High Performance Working Model, High Commitment Management Model, High Involvement Management Model • HR Environment –Environmental trends and HR Challenges • Linking SHRM and Business Performance	15
II	**HR Strategies** • Developing HR Strategies to Support Organisational Strategies, Resourcing Strategy – Meaning and Objectives, Strategic HR Planning – Meaning, Advantages, Interaction between Strategic Planning and HRP, Managing HR Surplus and Shortages, Strategic Recruitment and Selection – Meaning and Need, Strategic Human Resource Development – Meaning, Advantages and Process, Strategic Compensation as a Competitive Advantage, Rewards Strategies – Meaning, Importance, Employee Relations Strategy, Retention Strategies, Strategies for Enhancing Employee Work Performance	15
III	**HR Policies** • Human Resource Policies – Meaning, Features, Purpose of HR Policies, Process of Developing HR Policies, Factors affecting HR Policies, Areas of HR Policies in Organisation, Requisites of a Sound HR Policies – Recruitment, Selection, Training and Development, Performance Appraisal, Compensation, Promotion, Outsourcing, Retrenchment, Barriers to Effective Implementation of HR Policies and Ways to Overcome These Barriers, Need for Reviewing and Updating HR Policies, Importance of Strategic HR Policies to Maintain Workplace Harmony	15

IV	**Recent Trends in SHRM** • i.e. Mentoring • Employee Engagement – Meaning, Factors Influencing Employee Engagement, Strategies for Enhancing Employee Engagement • Contemporary Approaches to HR Evaluation – Balance Score Card, HR Score Card, Benchmarking and Business Excellence Model • Competency based HRM – Meaning, Types of Competencies, Benefits of Competencies for Effective Execution of HRM Functions. • Human Capital Management –Meaning and Role • New Approaches to Recruitment – Employer Branding, Special Event Recruiting, Contest Recruitment, e - Recruitment • Strategic International Human Resource Management – Meaning and Features, International SHRM Strategic Issues, Approaches to Strategic International HRM.	15
		60

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Department of Management Studies (BMS)
Teaching Plan (Term-I, 2022-2023)

Name of the Teacher: Swati Sonagra

Class & Specialization: TYBMS (MKT)

Semester: V

Subject: Strategic Marketing Management

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To understand marketing strategies and their impact on business models
- To learn strategic marketing tactics related to product, price, service, brand, positioning, incentives and communication for business growth.
- To learn the various marketing strategies adopted by Companies to create a competitive advantage

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction to Strategic Marketing Management** • Marketing: Nature of Marketing, marketing as an art, science and business discipline, marketing as a value creation process • Strategic decisions: Nature of strategy, the marketing strategy interface, difference between marketing planning and strategic planning • Identifying the market: The five C framework-customer, company, collaborator, competitor, context • The 7 tactics of Marketing mix: Product, service, brand, price ,incentives, communication and distribution • Business Model and Strategic Marketing Planning: Meaning, Role of Business models in marketing management, Strategies for developing a business models: top-down business model generation, bottom up business model generation, The G-STIC frame work for marketing planning: Goal-Strategy-Tactics-Implementation-control	15
II	**Segmenting, Targeting, Positioning and Creation of Value in the context of Strategic Marketing:** • Segmentation: Essence of segmentation, Factors to be considered while segmenting, key segmenting principles- relevance, similarity, exclusivity • Identifying Target Customers: Factors to be considered while targeting, targeting strategies-One for all strategy, one for each strategy, Strategic Targeting criteria: target attractiveness, target compatibility Essential strategic assets for target compatibility: business infrastructure, collaborator networks, human capital, intellectual property, strong brands, established customer base, synergistic offerings, access to scarce resources and capital. • Creating Customer Value through Positioning: Role of strategic positioning, strategic positioning options: The quality option, value option, the pioneer, a narrow product focus, target segment focus; strategies for creating superior customer value. Creating Company Value: Understanding Company Value: Monetary, functional and psychological value; strategically managing profits--increasing sales revenue-through volume, optimizing price, lowering costs Creating Collaborator Value: Meaning of	15

	collaborators, collaboration as business process, advantages and drawbacks of collaboration, levels of strategic collaboration: explicit, implicit; alternatives to collaboration: horizontal and vertical integration, managing collaborator relations; gaining collaborator power: offering differentiation; collaborator size, strategic importance, switching costs	
III	**Strategic Decisions in Product, Services and Branding** • Managing Product and Services: factors affecting product and service decisionsperformance, consistency, reliability, durability, compatibility, ease of use, technological design, degree of customization, physical aspects, style, packaging. Managing New Products: Forecasting new product demand using Primary Data and secondary data: offering specific forecasting, forecasting by analogy, category based forecasting. New product adoption: Understanding new product adoption, factors influencing diffusion of new offering, new product development process, managing risk in new products- market risk and technological risk, Moore’s Model of adoption of new technologies, managing product life cycle at various stages, extending Product lifecycle. • Managing Product Lines: Managing vertical, upscale, downscale, horizontal product-Line Extensions, Managing Product Line Cannibalization, Managing Product lines to gain and defend market position-The Fighting Brand Strategy, The sandwich strategy, The Goodbetter-best strategy • Brand Tactics: Brand: Meaning, brand identity, brand as value creation process brand hierarchy-Individual and umbrella branding, brand extension: vertical and horizontal, brand equity and brand power, measuring brand equity-cost based approach, market based approach and financial based approach.	15
IV	**Strategic Decisions in Pricing, Promotion and Distribution and strategic growth management** A) Managing Price: Major approaches to strategic pricing-cost based pricing, competitive pricing, demand pricing; Price sensitivity: meaning, psychological pricing, Five psychological pricing effects: reference price effects, price quantity effects, price tier effects, price ending effects, product line effects; Understanding competitive pricing and price wars: factors affecting price wars, Approach for developing a strategic response to competitors price cut, Other pricing strategies-captive pricing, cross price elasticity, deceptive pricing, everyday low pricing, experience curve pricing, loss leader pricing, horizontal price fixing, price signalling. B) Managing Promotions and incentives: Promotion mix strategy, Factors affecting strategic decisions in promotion mix, Promotion expenditure strategy, Methods to determine promotion expenditure-Breakdown Method, Buildup Method, Push and Pull promotions. Managing incentives as a value creation process, Goals of using customer incentives, Monetary incentives for customers, Non monetary incentives for customers. Collaborator incentives meaning, monetary incentives-slotting allowance, stocking allowance, cooperative advertising allowance, market development allowance, display allowance, spiffs C) Managing distribution: Distribution as value creation process, distribution channel design process-Channel structure: Direct, indirect and hybrid channel; channel coordination-common ownership, contractual relationship, implicit channel coordination; channel type, channel coverage, channel exclusivity D) Strategic Growth Management: Gaining market position: strategies to gain market position: steal share strategy, market growth strategy, market innovation strategy; Pioneering new markets: Meaning, Types of Pioneers: technology, product, business model, markets; benefits and drawbacks of being a Pioneer. Defending market position: Strategies to defend market position- ignoring competitors’ action, repositioning the existing offer- repositioning to increase value for current customers, repositioning to attract new customers.	15
		60

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: TYBMS SPECIALIZATION: Marketing SEM.: VI SUBJECT: Brand Management (BM)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- The course will help students understand how a new product is developed and maintained.
- Enhance students' ability to apply creative and critical strategies and tactics involved in developing, positioning, leveraging, managing a brand, and measuring its value.
- Apply branding principles and marketing communication concepts and frameworks to achieve brand management goals and improve marketing performance.

UNIT	TOPIC	No. of Lectures
I	Introduction to Brand Management: Meaning of Brand, Branding, Brand Management, Importance, Brands v/s Products, Scope,Branding, Challenges and Opportunities, CBBE, Sources of Brand Equity, Brand Building Blocks, Brand Positioning	09
II	Planning and Implementing Brand Marketing Programs Brand Elements, Integrating Marketing Programs and Activities, Personalising Marketing, Product Strategy, Pricing Strategy: Setting Prices to Build Brand Equity, Channel Strategy: Direct, Indirect Channels, Promotion Strategy: Developing Integrated Marketing Communication Programs, Leveraging Secondary Brand Associations to Build Brand Equity	10
III	Measuring and Interpreting Brand Performance	11

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	The Brand Value Chain, Measuring Sources of Brand Equity, Comparison, Brand Personality and Values: The Big Five, Quantitative Research Techniques, Brand Awareness, Brand Image, Brand Responses, Young and Rubicam's Brand Asset Valuator, Measuring Outcomes of Brand Equity, Comparative Methods: Brand based Comparative Approaches, Marketing, Holistic Methods: Residual Approaches, Valuation Approaches: Historical Perspectives and Interbrand's Brand Valuation Methodology	
IV	Growing and Sustaining Brand Equity, Designing & Implementing, Brand ArchitectureThe Brand-Product Matrix, Brand Hierarchy, Cause Marketing,Brand Extensions, Managing Brands, Reinforcing Brands, Revitalising Brands, Building Global Customer Based Brand Equity	10
	TOTAL	**40**

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ACADEMIC YEAR 2022-23 (TERM II)
TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Mkt & HR** **SEM.: IV**

SUBJECT: Business Research Methods (BRM)

Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- To develop understanding of the basic framework of the research process.
- To develop an understanding of various research designs and techniques.
- To identify various sources of information for literature review and data collection.
- understand some basic concepts of research and its methodologies organize and conduct research in a more appropriate manner
- write a research proposal

Sr. No.	UNIT	TOPIC	No. of Lectures
1	I	Introduction to BRM- Meaning, Objectives, types, concepts	4
2	I	Stages, characteristics, hypothesis, Research design, sampling	6
3	II	Data Collection & Processing- Types & Methods of data	4
4	II	Survey, Survey Instrument, Scaling Techniques	6

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5	III	Data Analysis & Interpretation- Processing, Analysis & interpretation	6
6	III	Multivariate Analysis, testing hypothesis	4
7	IV	Advanced techniques in report writing- Report Writing	4
8	IV	Ethics in research	3
9	IV	Objectivity, confidentiality & anonymity in research, Plagiarism	3
		TOTAL	**40**

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Department of Management Studies (BMS)

Teaching Plan (Term-II, 2022-2023)

Name of the Teacher: Swati Sonagra

Class & Specialization: FYBMS

Semester: II

Subject: Business Environment

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Introduction to Business Environment
- Political and Legal environment
- Social and Cultural Environment, Technological environment and Competitive Environment
- International Environment

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction to Business Environment** • Business: Meaning, Definition, Nature & Scope, Types of Business Organizations • Business Environment: Meaning, Characteristics, Scope and Significance, Components of Business Environment • Micro and Macro Environment: Definition, Differentiation, Analysis of Business Environment, SWOT Analysis. • Introduction to Micro-Environment: ♣ Internal Environment: Value system, Mission, Objectives, Organizational Structure, Organizational Resources, Company Image, Brand Equity ♣ External Environment: Firm, customers, suppliers, distributors, Competitors, Society • Introduction to Macro Components: Demographic, Natural, Political, Social, Cultural, Economic, Technological, International and Legal)	15
II	**Political and Legal environment** • Political Institutions: Legislature, Executive, Judiciary, Role of government in Business, Legal framework in India. • Economic environment: economic system and economic policies. Concept of Capitalism, Socialism and Mixed Economy • Impact of business on Private sector, Public sector and Joint sector • Sun-rise sectors of India Economy. Challenges of Indian economy.	15
III	**Social and Cultural Environment, Technological environment and Competitive Environment** • Social and Cultural Environment: Nature, Impact of foreign culture on Business, Traditional Values and its Impact, Social Audit - Meaning and Importance of Corporate Governance and Social Responsibility of Business • Technological environment: Features, impact of technology on Business • Competitive Environment: Meaning, Michael Porter's Five Forces Analysis, Competitive Strategies	15
IV	**International Environment**	15

	• International Environment – ♣ GATT/ WTO: Objective and Evolution of GATT, Uruguay round, GATT v/s WTO, Functions of WTO, Pros and Cons of WTO. ♣ Globalization: Meaning, Nature and stages of Globalization, features of Globalization, Foreign Market entry strategies, LPG model. ♣ MNCs: Definition, meaning, merits, demerits, MNCs in India ♣ FDI: Meaning, FDI concepts and functions, Need for FDI in developing countries, Factors influencing FDI, FDI operations in India, • Challenges faced by International Business and Investment Opportunities for Indian Industry.	
		60

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: SYBMS **SPECIALIZATION: Marketing** **SEM.: IV**

SUBJECT: Integrated Marketing Communication (IMC)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Choose a marketing communication mix to achieve the communications and behavioural objectives of the IMC campaign plan.
- Develop an integrated cross-media strategy and creative message and concept to reach the target audience and deliver the brand promise through an IMC campaign.
- Measure and critically evaluate the communications effects and results of an IMC campaign to determine its success.

Sr. No.	UNIT	TOPIC	No. of Lectures
1	I	Introduction to IMC- Meaning, features, evolution, reasons for growth	4
2	I	Promotional Tools, IMC Planning process, Role	3
3	I	Communication process, Hierarchy models	3
4	I	Establishing objectives & budgeting	3
5	II	Elements of IMC-I –Advertising-features, role, advantages & disadvantages, Types	4

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6	II	Sales Promotion: Scope, role, Reasons, advantages & disadvantages, types, Strategies, evaluation	3
7	III	Elements of IMC-II-Direct Marketing-Role, objectives, components, tools	4
8	III	Public Relation & Publicity- Role, advantages & disadvantages, Types, tools, Sponsorship	3
9	III	Personal Selling-Features, role, advantages & disadvantages, importance	3
10	IV	Evaluating an integrated marketing program	4
11	IV	Ethics & marketing communication	3
12	IV	Current trends in IMC	3
		TOTAL	**40**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____________________padma R chari___________________BMS______________________ DEPARTMENT:

___________________________ CLASS: __TYBMS________________ SEMESTER: _________VI______ MONTH:

__________December_______ ACADEMIC YEAR: _____2022-23___________

LEARNING OBJECTIVE/S:

The learners will be able to : The objective of this course is to familiarize the student with the fundamental aspects of various issues associated with International Finance The course aims to give a comprehensive overview of International Finance as a separate area in International Business & to introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of International Finance in this Globalized Market

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit-I a) Introduction to International Finance: • Meaning/ Importance of International Finance, Scope of International Finance, Globalization of the World Economy, Goals of International Finance, The Emerging Challenges in International Finance b) Balance of Payment: • Introduction to Balance of Payment, Accounting Principles in Balance of Payment, Components of Balance of Payments, Balance of Payment Identity Indian Heritage in Business, Management, Production and Consumption. c) International Monetary	10	Vipul Prakashan	Offline Chalk & board

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	Systems: • Evolution of International Monetary System , Gold Standard System , Bretton Woods System, Flexible Exchange Rate Regimes – 1973 to Present, Current Exchange Rate Arrangements, European Monetary System, Fixed & Flexible Exchange Rate System d) An introduction to Exchange Rates: • Foreign Bank Note Market, Spot Foreign Exchange Market • Exchange Rate Quotations Direct & Indirect Rates Cross Currency Rates Spread & Spread % • Factors Affecting Exchange Rates 2 Foreign Exchange Markets, Exchange Rate			
	Unit-II Foreign Exchange Markets, Exchange Rate Determination & Currency Derivatives a) Foreign Exchange Markets: • Introduction to Foreign Exchange Markets, Structure of Foreign Exchange Markets, Types of Transactions & Settlement Date, Exchange Rate Quotations & Arbitrage, Forward Quotations (Annualized Forward Margin) b) International Parity Relationships & Foreign Exchange Rate: • Interest Rate Parity, Purchasing Power Parity & Fishers Parity, Forecasting Exchange Rates (Efficient Market Approach, Fundamental Approach, Technical Approach, Performance of the Forecasters), Global Financial Markets & Interest Rates (Domestic & Offshore Markets, Money Market Instruments) c) Currency & Interest Rate Futures: • Introduction to Currency Options (Option on Spot, Futures & Futures Style Options), Futures Contracts, Markets & the Trading Process,	10		

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	Hedging & Speculation with Interest Rate Futures, Currency Options in India			
	UnitWorld Financial Markets & Institutions & Risks a) Euro Currency Bond Markets: • Introduction to Euro Currency Market, Origin of Euro Currency Market, Euro Bond Market (Deposit, Loan, Notes Market), Types of Euro Bonds, Innovation in the Euro Bond Markets, Competitive Advantages of Euro Banks, Control & Regulation of Euro Bond Market b) International Equity Markets & Investments: • Introduction to International Equity Market, International Equity Market Benchmarks, Risk & Return from Foreign Equity Investments, Equity Financing in the International Markets, Depository Receipts – ADR,GDR,IDR c) International Foreign Exchange Markets: • Meaning of International Foreign Exchange Market, FERA v/s FEMA, Scope & Significance of Foreign Exchange Markets, Role of Forex Manager, FDI v/s FPI, Role of FEDAI in Foreign Exchange Market d) International Capital Budgeting: • Meaning of Capital Budgeting, Capital Budgeting Decisions, Incremental Cash Flows, Cash Flows at Subsidiary and Parent Company, Repatriation of Profits, Capital Budgeting Techniques – NPV -III	10		
	Unit-IV	10		

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	a) Foreign Exchange Risk Management: • Introduction to Foreign Exchange Risk Management, Types of Risk, Trade & Exchange Risk, Portfolio Management in Foreign Assets, Arbitrage & Speculation b) International Tax Environment: • Meaning of International Tax Environment, Objectives of Taxation, Types of Taxation, Benefits towards Parties doing Business Internationally, Tax Havens, Tax Liabilities c) International Project Appraisal: • Meaning of Project Appraisal, Review of Net Present Value Approach (NPV), Option Approach to Project Appraisal, Project Appraisal in the International Context, Practice of Investment Appraisal			
		40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _40______

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ACADEMIC YEAR 2022-23 (TERM II)

TEACHING PLAN

CLASS: TYBMS SPECIALIZATION: Marketing SEM.: VI SUBJECT: Media Planning & Management (MPM)

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- Students will perceive about Media Planning, Strategy and Management with reference to current business scenario
- Students absorb the information related to the basic characteristics of all media
- students will comprehend an insight on Media Planning, Budgeting, Scheduling and Evaluating the Different Media Buys
- Students will be able to analyze international and domestic marketing and media metrics.

UNIT	TOPIC	No. of Lectures
I	Overview of Media and Media Planning: Meaning of Media & Features of Media, Meaning of Media Planning , Scope, Elements, Role , Process, Impact of Marketing Objectives, Factors Influencing, Role and Importance of Media in Consumer Buying Decision, Role of Media Planner, Challenges of, Organization Structure, Regulatory Framework, Legal Aspects Media Research:Meaning, Role and Importance, Sources of Media Research	11
II	Media Mix and Media Strategy Meaning, Need, Identifying Audience for Mass Media , Factors Affecting, Types, Media Choices, Print, Television, Radio, Out of Home (OOH), Emerging Media Media Strategy:Meaning, Need, Situation Analysis, Steps in Formulating Media Strategies	09
III	Media Budgeting, Buying & Scheduling: Importance, Methods, Factors, Meaning, Role, Buying Process,Buying brief, Criteria, Scheduling Patterns, Scheduling Strategies, Emphasis, Multiple Spotting, Teasers	11

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IV	Developments in International Marketing: Media Measurement, Basic Metrics,Television Metrics,Radio Metrics Print Metrics, OOH Metrics, Benchmarking Metrics, Plan Metrics, Evaluating Media Buys, Evaluating Print Media Buying, Evaluating Other Media Buys	09
	TOTAL	**40**

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: ____________________padma R chari___________________BMS______________________ DEPARTMENT:

___________________________ CLASS: __TYBMS________________ SEMESTER: _________VI______ MONTH:

__________December_______ ACADEMIC YEAR: ____2022-23

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LEARNING OBJECTIVE/S:The objective of this course is to familiarize the learners with the fundamental aspects of various issues associated with Project Management and To give a comprehensive overview of Project Management as a separate area of Management also to introduce the basic concepts, functions, process, techniques and create an awareness of the role, functions and functioning of Project Management

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	Unit-I Introduction to Project Management & Project Initiation a) Introduction to Project Management: • Meaning/Definition of Project & Project Management, Classification of Projects, Why Project Management, Characteristics/Importance of Project Management, Need for Project Management (Objectives), History of Project Management b) Organizational Structure (Project Organization): • Meaning/Definition of Organizational Structure, Organizational Work Flow, Developing Work Integration Positions, Types of Organizational Structure, Forms of Organization, Strategic Business Units (SBU) in Project Management. c) Project Initiation: • Project	10	Vipul Prakashan	Offline-Chalk & Board

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	Selection-Meaning of Project Selection, Importance of Project Selection, Criteria for Project Selection (Models), Types of Project Selection, Understanding Risk & Uncertainty in Project Selection • Project Manager- Meaning of Project Manager, Role of Project Manager, Importance of Project Manager, Role of Consultants in Project Management, Selecting Criteria for Project Manager • Project Planning-Importance of Project Planning, Functions of Project Planning, System Integration, Project Management Life Cycle, Conflicts & Negotiation			
	Unit-II Analyzing Project Feasibility a) Project Feasibility Analysis: • Meaning/Definition of Project Feasibility, Importance of Project Feasibility, Scope of Project Feasibility • Types of Project Feasibility- Market Feasibility, Technical Feasibility, Financial Feasibility, Economic Viability, Operational Feasibility • SWOT Analysis (Environment Impact Assessment, Social Cost Benefit Analysis) b) Market Analysis: • Meaning of Market Analysis, Demand Forecasting, Product Mix Analysis, Customer Requirement Analysis c) Technical Analysis: • Meaning of Technical Analysis, Use of Various Informational Tools for Analyzing, Advancement in the Era of E- Commerce in Project Management d) Operational Analysis: • Meaning of Operation Management, Importance of Operation Management,	10		

	Operation Strategy - Levels of Decisions, Production Planning & Control, Material Management - Work Study & Method Study, Lean Operations			
	Unity-III 3 Budgeting, Cost & Risk Estimation in Project Management a) Funds Estimation in Project: • Means of Financing, Types of Financing, Sources of Finance, Government Assistance towards Project Management for Start ups, Cost Control (Operating Cycle, Budgets & Allocations), Determining Financial Needs for Projects, Impact of Leveraging on Cost of Finance b) Risk Management in Projects: • What is Risk, Types of Risk in Projects, Risk Management Process, Risk Analysis & Identification, Impact of Risk Handling Measures, Work break Down Structure, New Venture Valuation (Asset Based, Earnings Based, Discounted Cash flow Models) c) Cost Benefit Analysis in Projects • Introduction to Cost Benefit Analysis, Efficient Investment Analysis, Cash - Flow Projections, Financial Criteria for Capital Allocation, Strategic Investment	10		
	Unit-IV New Dimensions in Project Management a) Modern Development in Project Management: • Introduction to Modern Development in Project Management, Project Management Maturity Model (PMMM), Continuous Improvement, Developing Effective Procedural	10		

	Documentation, Capacity Planning b) Project Monitoring & Controlling: • Introduction to Project Monitoring & Controlling, The Planning – MonitoringControlling Cycle, Computerized Project Management Information System (PMIS), Balance in Control System in Project Management, Project Auditing – Life Cycle c) Project Termination & Solving Project Management Problems: • Meaning of Project Termination, Reasons for Termination of Projects, Process for Terminating Projects, Strategy/ Ways to Solve Project Management Problems, Project Review & Administrative Aspects, Execution Tools for Closing of Projects			
		40		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT32___40___

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Department of Management Studies (BMS)
Teaching Plan (Term-II, 2022-2023)

Name of the Teacher: Swati Sonagra
Class & Specialization: SYBMS (MKT)
Semester: IV
Subject: Rural Marketing
Date:
Course Outcomes: The Learners will be able to:

The students would be able :
Course Outcomes:
- The objective of this course is to explore the students to the Agriculture and Rural Marketing environment so that they can understand consumer's and marketing characteristics of the same for understanding and contributing to the emerging challenges in the upcoming global economic scenario.

Unit No.	Topics	No. of Lectures Allotted
I	**Introduction** • Introduction to Rural Market, Definition &Scope of Rural Marketing. • Rural Market in India-Size & Scope, Rural development as a core area, Efforts put for Rural development by government (A brief Overview). • Emerging Profile of Rural Markets in India, • Problems of rural market. • Constraints in Rural Marketing and Strategies to overcome constraints	15
II	**Rural Market** • Rural Consumer Vs Urban Consumers– a comparison. • Characteristics of Rural Consumers. • Rural Market Environment: a)Demographics– Population, Occupation Pattern, Literacy Level; b)Economic Factors-Income Generation, Expenditure Pattern, Rural Demand and Consumption Pattern, Rural Market Index; Land Use Pattern, c)Rural Infrastructure -Rural Housing, Electrification, Roads • Rural Consumer Behaviour: meaning, Factors affecting Rural Consumer Behaviour-Social factors, Cultural factors, Technological factors, Lifestyle, Personality.	15
III	**Rural Marketing Mix** • Relevance of Marketing mix for Rural market/Consumers. • Product Strategies, Rural Product Categories-FMCGs, Consumer Durables, Agriculture Goods &Services; Importance of Branding, Packaging and Labelling. • Nature of Competition in Rural Markets, the problem of Fake Brands • Pricing Strategies & objectives • Promotional Strategies. Segmentation, Targeting & Positioning for rural market.	15
IV	**Rural Marketing Strategies** • Distribution Strategies for Rural consumers. Channels of Distribution- HAATS, Mandis, Public Distribution System, Cooperative society, Distribution Models of FMCG, Companies HUL, ITC etc. Distribution networks, Ideal distribution model for rural markets (Case study based) • Communication Strategy. Challenges in Rural	15

	Communication, Developing Effective Communication, Determining Communication Objectives, Designing the Message, Selecting the Communication Channels. Creating Advertisements for Rural Audiences. Rural Media- Mass media, Non-Conventional Media, Personalized media;	
		60

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Department of Management Studies (BMS)

Teaching Plan (Term-II, 2019-2020)

Name of the Teacher: SWATI SONAGRA

Class & Specialization: TYBMS (MKT)

Semester:VI

Subject: RETAIL MANAGEMENT

Date:

Course Outcomes: The Learners will be able to:

The students would be able :

Course Outcomes:

- To familiarize the students with retail management concepts and operations
- To provide understanding of retail management and types of retailers
- To develop an understanding of retail management terminology including merchandize management, store management and retail strategy.
- To acquaint the students with legal and ethical aspects of retail management
- To create awareness about emerging trends in retail management

Unit No.	Topics	No. of Lectures Allotted
I	**Retail Management- An overview** a) Retail Management: • Introduction and Meaning, Significance, Factors Influencing Retail Management, Scope of Retail Management b) Retail Formats: • Concept of Organized Retailing: Factors Responsible for the Growth of Organized Retail in India, Multichannel Retailing: Meaning and Types, E-tailing: Meaning, Advantages and Limitations c) Emerging Trends in Retailing • Impact of Globalization on Retailing • I.T in Retail: Importance, Advantages and Limitations, Applications of I.T. in Retail: EDI, Bar Coding, RFID Tags, Electronic Surveillance, Electronic Shelf Labels • FDI in Retailing: Meaning, Need for FDI in Indian Retail Scenario • Franchising: Meaning, Types, Advantages and Limitations, Franchising in India • Green Retailing • Airport Retailing	15
II	**Retail Consumer and Retail Strategy** a) Retail Consumer/Shopper: • Meaning of Retail Shopper, Factors Influencing Retail Shoppers, Changing Profile of Retail Shoppers, Market Research as a Tool for Understanding Retail Markets and Shoppers b) CRM in Retail: • Meaning, Objectives • Customer Retention Approaches: Frequent Shopper Programme, Special Customer Services, Personalization, Community c) Retail Strategy: • Meaning, Steps in Developing Retail Strategy, Retail Value Chain d) Store Location Selection: • Meaning, Types of Retail Locations, Factors Influencing Store Location e) HRM in Retail: • Meaning, Significance, Functions • Organization Structure in Retail: Meaning, Factors Influencing Designing Organization Structure, Organization Structure for Small Stores/Single Stores/Independent Retailers and Retail Store Chain/Department Store	15
III	**Merchandise Management and Pricing** a) Merchandise Management • Concept, Types of Merchandise, Principles of	15

	Merchandising, Merchandise Planning- Meaning and Process, Merchandise Category – Meaning, Importance, Components, Role of Category Captain, Merchandise Procurement/SourcingMeaning, Process, Sources for Merchandise b) Buying Function: • Meaning, Buying Cycle, Factors Affecting Buying Functions, Functions of Buying for Different Types of Organizations Young and Rubicam's Brand Asset Valuator- Independent Store, Retail Chain, Non-store Retailer c) Concept of Lifestyle Merchandising d) Private Label • Meaning, Need and Importance, Private Labels in India e) Retail Pricing • Meaning, Considerations in Setting Retail Pricing • Pricing Strategies: High/ Low Pricing: Meaning, Benefits, Everyday Low Pricing: Meaning, Benefits, Market Skimming, Market Penetration, Leader Pricing, Odd Pricing, Single Pricing, Multiple Pricing, Anchor Pricing • Variable Pricing and Price Discrimination- Meaning Types: ♣ Individualized Variable Pricing/First Degree Price ♣ Self-Selected Variable Pricing/ Second Degree Price DiscriminationClearance and Promotional Markdowns, Coupons, Price Bundling, Multiple – Unit Pricing ♣ Variable Pricing by Market Segment/ Third Degree Price Discrimination	
IV	**Managing and Sustaining Retail** a) Retail Store Operations: • Meaning, Responsibilities of Store Manager, The 5 S's of Retail Operations (Systems, Standards, Stock, Space, Staff) b) Store Design and Layout: • Store Design- Meaning, Objectives, Principles, Elements of Exterior and Interior Store Design, Store Atmospherics and Aesthetics • Store Layout- Meaning, Types: Grid, Racetrack, Free Form • Signage and Graphics: Meaning, Significance, Concept of Digital Signage • Feature Areas: Meaning, Types: Windows, Entrances, Freestanding Displays, End Caps, Promotional Aisles, Walls, Dressing Rooms, Cash Wraps c) Visual Merchandising and Display: • Visual Merchandising- Meaning, Significance, Tools Used for Visual Merchandising • The Concept of Planogram • Display- Meaning, Methods of Display, Errors in Creating Display d) Mall Management • Meaning and Components: Positioning, Zoning, Promotion and Marketing, Facility Management, Finance Management e) Legal and Ethical Aspects of Retailing • Licenses/Permissions Required to Start Retail Store in India • Ethical Issues in Retailing Career Options in Retailing	15
		60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Prof. NEHA MAHESHWARI. DEPARTMENT: COMMERCE

CLASS: SYEME SEMESTER: III MONTH: JUNE-OCT ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : Understand the Research Methods in Business.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Unit 1	● Fundamentals of Research: - Meaning, Objectives and Significance. Types of Research: - Basic research, Applied, Descriptive, historical, Exploratory, Experimental, Ex-post-factor and Case study approach. ● Approaches to Research: - ● a. Quantitative approach: - i Inferential ii Experimental iii Simulation ● b. Qualitative approach: - i Ethnographic ii Phenomenological iii Field Research ● Importance of research in management decisions: - Various areas of research in business: a) Marketing Research b) Government policies and economic systems c) Social relationship d) Planning and operational problems of research in business	**8**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**

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Unit 2	• Research process: - Selecting the topic, defining the research problem, objectives of research, literature survey, sample design, data collection, execution of project, analysis of data and hypothesis testing, generalization and interpretation and preparation of research report. • Features of good research • Research design – Meaning, need, features of good research design, types of research design – a) For exploratory research b) For descriptive research b) For causal research studies	**7**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**
Unit 4	• Sources and Methods of data collection: - Primary and Secondary data. • a) Primary sources: - i. Observation ii. Interview iii. Questionnaire iv. Interview schedules • b) Secondary sources Data processing – Tabulation - Data analysis and Interpretation Report writing – layout of research report	**4**	**C.R.Kothari, "Research Methodology - Methods & Techniques" , New Age International Publishers**	**Blackboard, Chalk, Google classroom**

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 19

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ashlesha Maurya DEPARTMENT: EME CLASS: TYEME SEMESTER: **VI** MONTH: JAN- APRIL

ACADEMIC YEAR:2022-23 SUBJECT : Disaster Management

LEARNING OBJECTIVES:

1) To Identify and explain major types of disasters and the appropriate mitigation strategies

2) To examine the importance of effective disaster preparedness, planning and operations in ensuring reduction in damage

3) To evaluate the different Medical and Psycho-Social Preparedness to disasters

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-1	Disaster – Introduction –Types of natural calamities,	05		Chalk and board
	major and minor calamities –			Chalk and board
	impact of calamities.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-2	Natural disaster – flood	05		Chalk and board
	cyclone – Tsunami			Chalk and board
	Landslides – earthquake			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-3	Man Made disaster – Wars	10		Chalk and board
	Biological war (introduction of pathogens) – misuse of atomic bombs –			Chalk and board
	major accidents from industries e.g. Bhopal. Love canal disaster – London Smog.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-4	Medical Management of disaster –	10		Chalk and board
	Disaster Impacts and response			Chalk and board
	Identification of dead – Search rescue –first and relief phase –			Chalk and board
	Vaccination, basic sanitation and personal hygiene.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ________

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT-5	Environmental Disaster – Assessment, Planning – mitigation program – preparedness –	10		Chalk and board
	Resettlement rehabilitation – role of NGOS, Gos (relief camp),			Chalk and board
	Psychotherapy – simplified yoga and meditation, stress management.			Chalk and board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: __40______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Sivapriya Achari DEPARTMENT: Commerce CLASS: FYBFMG

SEMESTER: I MONTH: July - November ACADEMIC YEAR: 2022- 2023 SUBJECT: Business Communication

LEARNING OBJECTIVE/S: To help students understand the various aspects of communication. All Socio - economic activities require effective communication skills. The learners will be able to Preparing resumes to attending interviews, convening meetings, planning strategies, making presentations, drafting reports etc, all call for honing our writing and speaking skills. To make students aware of the importance of developing skills.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
Unit1. Theory of Communication	1) Concept of Communication- Meaning, Definition, Process, Need, Feedback. Emergence of communication as a key concept in the Corporate and Global World Impact of technological advancements on communication 2) Channels and Objectives of Communication: Channels : Formal and Informal - Vertical, Horizontal, Diagonal, Grapevine	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	Objectives of Communication: Information, Advice, Order and Instruction, Persuasion, Motivation, Education, Warning, and Boosting the Moral of Employees 3) Methods and Modes of Communication: Methods: Verbal and Nonverbal, Characteristics of Verbal Communication Characteristics of Non-verbal Communication, Business Etiquette Modes: Telephone and SMS Communication 3 (General introduction to Telegram to be given) Facsimile Communication [Fax] Computers and E- communication Video and Satellite Conferencing			
Unit 2 - Obstacles to Communication in Business World	1) Problems in Communication /Barriers to Communication: Physical/ Semantic/Language / Socio-Cultural / Psychological / Barriers, Ways to Overcome these Barriers	15	Manan Publication, Sheth Publication, Vipul Publication	Chalk - Board

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	2) Listening: Importance of Listening Skills, Cultivating good Listening Skills – 4 3) Introduction to Business Ethics: Concept and Interpretation, Importance of Business Ethics, Personal Integrity at the workplace, Business Ethics and media, Computer Ethics, Corporate Social Responsibility Teachers can adopt a case study approach and address issues such as the following so as to orient and sensitize the student community to actual business practices: Surrogate Advertising, Patents and Intellectual Property Rights, Dumping of Medical/E-waste, Human Rights Violations and Discrimination on the basis of gender, race, caste, religion, appearance and sexual orientation at the workplace Piracy, Insurance, Child Labour			
Unit 3 : Business Correspondence	1)Theory of Business Letter Writing: Parts, Structure, Layouts—Full Block, Modified Block, Semi - Block Principles of Effective Letter Writing, Principles of effective Email Writing, Personnel Correspondence: Statement of Purpose, Job Application Letter and Resume, Letter of Acceptance of Job Offer, Letter of Resignation [Letter of Appointment, Promotion and Termination, Letter of Recommendation (to be taught but not to be tested in the examination)]	15	Manan Publication, Sheth Publication, Vipul Publication	Online

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Unit 4 : Language and Writing Skills	Commercial Terms used in Business Communication Paragraph Writing: Developing an idea, using appropriate linking devices, etc Cohesion and Coherence, self-editing, etc [Interpretation of technical data, Composition on a given situation, a short informal report etc.] Activities 🕮 Listening Comprehension 🕮 Remedial Teaching 🕮 Speaking Skills: Presenting a News Item, Dialogue and Speeches 🕮 Paragraph Writing: Preparation of the first draft, Revision and Self – Editing, Rules of spelling. 🕮 Reading Comprehension: Analysis of texts from the fields of Commerce and Management	15	Manan Publication, Sheth Publication, Vipul Publication	Online

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: PLEMIA REBELLO DEPARTMENT: FMG CLASS:TYFMG . SEMESTER: VI

SUBJECT : AUDITING MONTH: DECEMBER 2022 - FEBRUARY 2023 ACADEMIC YEAR:2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

To give knowledge to students about how to find reliability of financial position and profit and loss statements. The aim is to ensure that the accounts reveal a true and fair face of the business and all of its transactions.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1.**VOUCHING** Audit of Income Revenue from Sales and Services, Rental Income, Interest & Dividends Income, Royalties Income, Recovery of Bad debts written off, Commission Received 1.2 Audit of Expenditure Purchases, Salaries & Wages, Rent, Insurance Premium, Telephone expense , Petty cash payment, Advertisement, Travelling Salesmen's Commission, Freight Carriage and Custom Duties	15	SHETH , VIPUL,MANAN PRAKASHAN	PPT, CHALK AND BOARD
	2.**VERIFICATION** 2.1 Audit of assets Plant & Machinery, Furniture and fixtures, Accounts Receivable, Investments, Inventory, Goodwill, Patent Rights 2.2 Audit of Liabilities Outstanding Expenses, Accounts Payable, Secured loans, Unsecured Loans, Contingent Liabilities, Public	15		

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	Deposits			
	3. **Audit and Assurance Standards** 3.1 Significance of the Audit and Assurance Standards issued by Institute of Chartered Accountants of India. Responsibility of auditor for AAS 3.2 Understanding of following standards SA 200 Basic principles of Governing an Audit SA 200A Objective and scope of the audit of financial statements SA 230 Audit documentation SA 320 Audit materiality SA 570 Going Concern	15		
	4**. Audit of Limited Companies** 4.1 Qualifications, Disqualifications, Appointments (First & Subsequent auditor), Reappointment, Removal of auditors.	15		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT : 60

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: **Jagruti Naukudkar** DEPARTMENT: **SFC – BFMG**

CLASS: **SYBFMG Div A** SEMESTER: **III** MONTH: **June To Sep** ACADEMIC YEAR: **2022 - 23**

LEARNING OBJECTIVE/S:
The learners will be able to :

1) Knowledge based & Conceptual learning to get acquainted with objective type test
2) Revise the concepts of Partnership Final Accounts
3) Solve practical questions using concepts
4) Introduction to Accounting with computer.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Corporate Accounting	Unit 1 : Partnership Final Accounts	16	Manan Publication, Vipul Publication	Chalk Board, PPT
	1) Concepts - Admission, Retirement & Death 2) Treatment of Goodwill 3) Practical problems		Sheth Publication	
	Unit 2 : Accounting with Computers	16	Manan Publication, Vipul Publication	Chalk Board, PPT

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	1) Inventory vouchers- stock journal 2) Manufacturing Journal godown management, batch-wise management.		Sheth Publication	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: ____32______

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. RASHMI GURUNANI SUBJECT: MUTUAL FUND MANAGEMENT DEPARTMENT: COMMERCE

CLASS: SYBIM SEMESTER: III MONTH: JUNE, JULY ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1 INTRODUCTION TO MUTUAL FUND	History, Origin, Definition, Meaning of Mutual Fund	1	MUTUAL FUNDS by R.K.Mohapatra	• Chalk • Board • Discussion • Examples • Google classroom • YouTube videos
	Characteristics, Advantages, Disadvantages of Mutual Fund, Ethics	1		
	Entities involved – Sponsors, Trust, Trustee, AMC, Registrar &Transfer Agent and Fund Houses in India	4		
	Legal Framework, Role of Regulatory agencies – SEBI, RBI, AMFI, Ministry of Finance, SRO, Company Law Board, Registrar of Companies	3		
	Mutual Fund guidelines on advertisement, accounting, taxation, valuation norms, purchase mutual fund, investor protection	4		
	Mutual Fund regulation and grievances mechanism	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 1: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms RASHMI GURUNANI SUBJECT: MUTUAL FUND MANAGEMENT DEPARTMENT: COMMERCE

CLASS: SYBIM SEMESTER: III MONTH: AUGUST, SEPTEMBER ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S: The learners will be able to : Understand the Concepts well and relate to practical knowledge

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 4 FINANCIAL PLANNING AND MUTUAL FUND	A) Basics of Financial Planning – Steps, Life Cycle, Wealth Cycle, risk profiling, asset allocation, contingencies funds	3	MUTUAL FUNDS by R.K.Mohapatra	• Chalk • Board • Discussion • Examples • Google classroom • YouTube videos
	B) Investor guides towards Financial planning – Eligibility for investment in mutual fund, KYC, Long bond fund, Short bond fund, Ultra Short bond fund, Need for financial advisors, colour coding mutual fund, difference between advisors and distributor, FD and mutual fund, dividend and growth option	6		
	C) Developing model portfolio for Investors – meaning, step by step approach of building model portfolio	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT 4: 12

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: MS. SEEMA SIHANA________________________DEPARTMENT:__SELF FINANCE___________

CLASS __S.Y.B.F.M SEMESTER:_I___________MONTH: _AUGUST-NOVEMBER 2022 ACADEMIC YEAR: __2022-23_______

LEARNING OBJECTIVE/S:

PAPER, UNIT, TITLE	SUB TOPICS	NO. OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Foundation Course–I (Money Market) Unit I, II, III,and IV	**Module I- Introduction to Money Markets** Meaning of money market, Features of money market, Importance of money market, Role of Primary dealers, Development of trade and industry, Development of capital market, Smooth functioning of commercial banks, Effective Central Bank Control, Formulation of suitable monetary policy, Source of finance to government.	5	Text Book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion
	Module II- Regulatory Framework of Money Markets	10	**Text book**	
	Regulatory framework of RBI, FIMMDA (Fixed Income, Money Market and Derivatives Association) and FEDAI (Foreign Exchange Dealers Association of India), NDS-OM Web.			1.Chalk and Black Board Method 2 Example 3 Discussion
	. **Module III- Money Market Instruments** **Conventional:- Treasury bills, Money at call and Short Notice in the Call Loan market, Commercial bills, Promissory notes in the bill market.**	10	Text book	1.Chalk and Black Board Method 2 Example 3 Discussion

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	Modern:- Commercial papers, Certificate of Deposit, Inter-bank Participation Certificates, Repo instrument, Banker's Acceptance. **Money Market Mutual Fund:- Meaning, advantages, disadvantages, Regulatory framework for money market mutual funds, various money market funds operational in Indian market.**			
	Module IV- Recent Developments in Money Market Integration of Unorganised sector with the Organised sector, Widening of call money market, Introduction of Innovative Instrument, Offering of market rates of interest, Promotion of bill culture, Entry of money market mutual funds, Setting up of credit rating agencies, Adoption of suitable monetary policy, Establishment of DFHI, Setting up of Security	10	Text book Internet The Indian constitution	1.Chalk and Black Board Method 2 Example 3 Discussion
		10	Text book Internet	1.Chalk and Black Board Method 2 Example 3 Discussion

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: HEMANGI V MEHTA DEPARTMENT: SFC CLASS: TY BIM SEMESTER: 5 MONTH: JUN-AUG

ACADEMIC YEAR: 2022-2023 SUBJECT: RESEARCH METHODOLOGY

LEARNING OBJECTIVES:

The learners will be able to : Imparting and adequate knowledge of the subject matter

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
UNIT 1- Introduction to Research UNIT 2- Data Collection and Processing	Meaning objectives and importance of research- Types of research-research Process-Characteristics of good Research-Hypothesis-Meaning, nature, significane, types and sources-research design-meaning, defination, need and importance,steps, scope and essentials of a good research design-Sampling-meaning of sample and sampling- methods of sampling-non probability sampling-covenient, judgment, quota, snow ball-Probability-simple Random, stratified, cluster, multi stage. Types of data and sources- Primary and Secondary Data Sources-Methods of collection of Primary data-Observation-stuctured and unstructured-disguised and undisguised-mechnical observations-Exprimental- field -laboratory- interview-personal interview-focused group-in depth interviews method-Survey instrument-Questionnaire designing-types of questions-structured/close ended, unstructured/open ended, Dichotomous, Multiple choice Questions-Scaling techniques- Likert scale, semantic Differential scale.	30	Research Methodology by Vipul Publication	Chalk Board Flow Chart

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UNIT 4- Advanced Statistical Techniques	Introduction, characteristics and Application of- Correlation and Regression Analysis- Factor Anlysis- Cluster Analysis- Discriminant Analysis- Multidimensional Scaling			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 30

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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM I MONTH: July – November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS II UNIT I ELEMENTARY PROBABILITY THEORY	Trial, random experiment, sample point and sample space. Definition of an event. Operation of events, mutually exclusive and exhaustive events. Classical (Mathematical) and Empirical definitions of Probability and their properties. Theorems on Addition and Multiplication of probabilities. Independence of events, pairwise and mutual independence for three event Conditional probability, Bayes theorem and its applications.	15	Medhi J.: Statistical Methods, An Introductory Text, Second Edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM II MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS-2 UNIT I CONTINUOUS RANDOM VARIABLE	Concept of continuous random variable and properties of its probability distribution, Probability density function and Cumulative distribution function, Their graphical representations, Expectation of a random variable and its properties, Measures of location, dispersion, skewness and kurtosis, Raw and central moments (simple illustrations).	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: FYBSC(PMS)

SEMESTER: SEM II MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
STATISTICAL METHODS-2 UNIT II STANDARD CONTINUOUS DISTRIBUTIONS	Uniform, Exponential (location scale parameter), Memoryless property of exponential distribution, Normal distribution. Derivations of mean, median and variance for uniform and exponential distributions. Properties of normal distributions (without proof). Normal approximation to Binomial and Poisson distribution(statement only). Properties of Normal curve, Use normal tables.	15	Statistical Methods - S.G. Gupta (S. Chand & Co.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: SYBSC(MS)

SEMESTER: SEM III MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PROBABILITY DISTRIBUTIONS UNIT I UNIVARIATE RANDOM VARIABLES (DISCRETE AND CONTINUOUS)	Moment Generating Function (M.G.F.): Definition Properties: - Effect of change of origin and scale, - M.G.F of sum of two independent random variables X and Y, - Extension of this property for n independent random variables and for n i.i.d. random variables. All above properties with proof, - Uniqueness Property without proof. - Raw moments using M.G.F: using expansion method and using derivative method. Cumulant generating Function (C.G.F.): Definition Properties: - Effect of change and origin and scale, - Additive Property of C.G.F. and cumulants Both properties with proof. Obtaining Cumulants using C.G.F. Derivation of relationship between moments and cumulants up to order four.	15	Fundamentals of Mathematical Statistics: S.C. Gupta, V.K. Kapoor; Eighth Edition; Sultan Chand & Sons	Chalk and Board

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	Characteristic Function: Definition and properties (without Proof) Examples of obtaining raw moments and central moments up to order four using M.G.F. and C.G.F. for continuous and discrete distributions. Degenerate distribution (One point distribution) P(X=c) =1. Mean, Variance, Use of Degenerate distribution. Discrete Uniform distribution. Mean, Variance, coefficient of skewness using m.g.f., Bernoulli distribution. Mean, Variance, coefficient of skewness using m.g.f. Binomial distribution: Mean, Variance, Measures of skewness and Kurtosis based on moments using M.G.F. and C.G.F., Nature of probability curve, Mode, Additive property, If X follows Binomial, then to find distribution of n-X. Recurrence relation for moments with proof, Relation between Bernoulli and Binomial using m.g.f.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik   DEPARTMENT: Mathematics   CLASS: TYBSC(STATISTICS)

SEMESTER: SEM V   MONTH: July - November   ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I PROBABILITY AND DISTRIBUTION THEORY UNIT IV ORDER STATISTICS	(i) Definition of Order Statistics based on a random sample. (ii) Derivation of: (a) Cumulative distribution function of rth order statistic. (b) Probability density functions of the rth order statistic. (c) Joint Probability density function of the rth and the sth order statistic (r < s) (d) Joint Probability density functions of all n ordered statistics. (e) Distribution of Maximum observation (nth order statistic) and Minimum observation (first order statistic) in case of uniform and Exponential distribution. (f) Probability density function of the difference between rth and sth order statistic (r < s) in case of uniform and exponential distribution	15	Hogg R V and Tanis E. A.: Probability and statistical inference, Fourth edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: TYBSC(STATISTICS)

SEMESTER: SEM VI MONTH: December-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
DISTRIBUTION THEORY AND STOCHASTIC PROCESSES UNIT IV QUEUING THEORY	Basic elements of the Queuing model. Roles of the Poisson and Exponential distributions. Derivation of Steady state probabilities for birth and death process. Steadystate probabilities and various average characteristics for the following models: (i) (M/M/1): (GD/ ∞ /∞) (ii) (M/M/1): (GD/ N /∞) (iii) (M/M/c): (GD/∞/∞) (iv) (M/M/c): (GD/ N /∞) (v) (M/M/∞): (GD/ ∞/∞)	15	1. Taha H.A.: Operations Research: An introduction, Eighth edition, Prentice Hall of India Pvt.Ltd.	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Komal Sudhir Naik DEPARTMENT: Mathematics CLASS: TYBSC(STATISTICS)

SEMESTER: SEM V MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: develop critical and logical thinking and will able to solve various problems

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II THEORY OF ESTIMATION UNIT II METHODS OF POINT ESTIMATION	Method of Maximum Likelihood Estimation (M.L.E.): 1. Definition of likelihood as a function of unknown parameter for a random sample from: Discrete distribution & Continuous distribution. 2. Derivation of Maximum likelihood estimator (M.L.E.) for parameters of Standard distributions (case of one and two unknown parameters). 3. Properties of MLE (without proof). Method of Moments: 1. Derivation of Moment estimators for standard distributions (case of one and two unknown parameters) Illustrations of situations where MLE and Moment Estimators are distinct and their comparison using Mean Square error. Method of Minimum Chi-square and Modified Minimum Chi-Square	15	Hogg R V and Tanis E. A.: Probability and statistical inference, Fourth edition	Chalk and Board

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FY PCM SEMESTER: I

MONTH:July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the Concept of Relations & Functions. Equivalence relation, classes and Residue classes.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Pape II Algebra I Unit II Functions , Relations & Binary Operation .	1. Relation and function, domain, co-domain, range of a function, composite functions, examples, Direct image and inverse image.	3	Vipul's Sheth Publication Algebra I	Chalk-Board Method
	2. Injective, surjective, bijective functions, Composite of injective, surjective, bijective functions when defined, invertible functions.	4		
	3. Examples of functions including constant, identity, projection, inclusion, Binary operation as a function, properties, examples	3		

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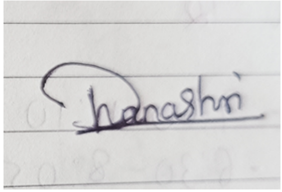
	5. Partition of Set, Equivalence relation, Equivalence classes, properties.	3		
	6. Residue classes and partition of Z, Addition modulo n, Multiplication modulo n, examples.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15



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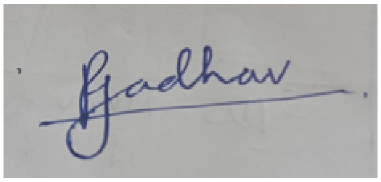

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: FY PCM SEMESTER: I

MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand the concept of Differential equation, methods of problem solving & it’s applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Pape I Calculus , Unit III Differential Equation	1. Definition of a differential equation, order, degree, ordinary differential equation and partial differential equation, linear and nonlinear ODE	3	Vipul's Calculus III	Chalk-Board Method
	2. Solution of homogeneous and non-homogeneous differential equations of first order and first degree. Notion of partial derivatives.	4		
	3. Exact equations of first order and first degree. Necessary and sufficient condition for M dx + N dy = 0 to be exact	2		

Dhanashri

Jadhav

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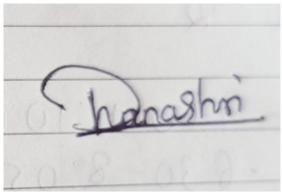
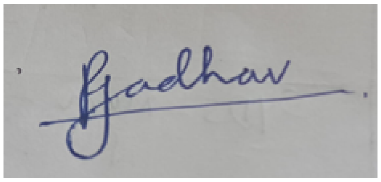
	4. non-exact equations: Rules for finding integrating factors for non-exact equations. Reduction of order.	4		
	5. Linear and reducible linear equations of first order, Applications to orthogonal trajectories, population growth, and finding the current at a given time.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT:15





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VIVA COLLEGE, Virar (W)

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: TYB.Sc (MATHS) SEMESTER: V MONTH: JUNE- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept vector fields and define and evaluate line integrals using the Fundamental Theorem of Line Integrals and Green's Theorem; compute arc length.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Line Integrals	Review of Scalar and Vector fields on R^n, Vector Differential Operators, Gradient, Curl, Divergence. Paths (parametrized curves) in R^n(emphasis on R^2 and R^3), Smooth and piecewise smooth paths. Closed paths. Equivalence and orientation preserving equivalence of paths	4	1. Textbook of Sheth Publication	Black board, chalk and duster
	Definition of the line integral of a vector field over a piecewise smooth path. Basic properties of line integrals including	4		

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	linearity, path-additivity and behaviour under a change of parameters. Examples.			
	Line integrals of the gradient vector field, Fundamental Theorem of Calculus for Line Integrals, Necessary and sufficient conditions for a vector field to be conservative.	4		
	Green's Theorem (proof in the case of rectangular domains). Applications to evaluation of line integrals.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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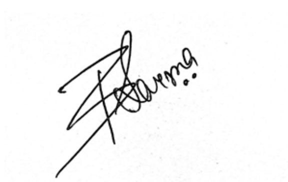
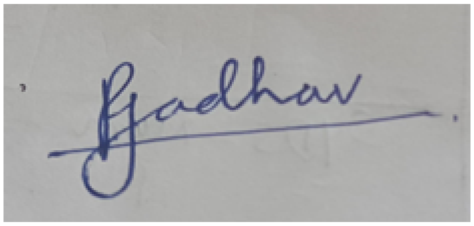
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Sy BSc (PM/MS)

SEMESTE: sem III MONTH: July- November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ORDINARY DIFFERENTIAL EQUATION UNIT-III	**Higher order Linear Differential equations:** **1.**The general n−th order linear differential equations, Linear independence, An existence and uniqueness theorem, the Wronskian, Classification: homogeneous and non-homogeneous, General solution of homogeneous and non-homogeneous LDE, The Differential operator	15	Units 5, 6, 7 and 8 of E.D. Rainville and P.E. Bedient; Elementary Differential Equations; Macmillan.	Chalk and board

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	and its properties. 2. Higher order homogeneous linear differential equations with constant coefficients, the auxiliary equations, Roots of the auxiliary equations: real and distinct, real and repeated, complex and complex repeated. 3.Higher order homogeneous linear differential equations with constant coefficients, the method of undermined coefficients, method of variation of parameters. 4. The inverse differential operator and particular integral, Evaluation of 1 f(D) for the functions like eax, sin ax, cos ax, xm, xm sin ax, xm cos ax, eaxV and xV where V is any function of x, 5. Higher order linear differential equations with variable coefficients: The Cauchy's equation: x3d3y/dx3+ x2 d2y/dx2+ x dy/dx + y = f(x) and The Legendre's equation: (ax + b)3d3y/dx3 + (ax +b)2 d2y/dx2+ (ax + b) dydx + y = f(x).			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Fy BSc (PCM/PMS)

SEMESTE: sem I MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURE S ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Calculus I UNIT-II: Sequence s in R	(1) Definition of a sequence and examples, Convergence of sequences, every convergent sequences is bounded. Limit of a convergent sequence and uniqueness of limit, Divergent sequences. (2) Convergence of standard sequences like $(1/1 + na)\,\forall a > 0,\ (b\,n)\,\forall b,\ 0 < b$ (3) Algebra of convergent sequences, sandwich theorem, monotone sequences,	15	R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964. E. A. Coddington , An Introduction to Ordinary Differential	Chalk and board

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	monotone convergence theorem and consequences as convergence of $\left(\left(1+\frac{1}{n}\right)^{\wedge}n\right)$. (4) Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.		Equations.Prentice Hall, 1961.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: III MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand application of system of homogeneous and non homogeneous equations.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER III, UNIT II Systems of First Order Linear Differential Equations	Existence and uniqueness theorem for the solutions of initial value problems for a system of two first order linear differential equations in two unknown functions x, y of a single independent variable t, of the form dx/dt = F(t, x, y) dy/dt = G(t, x, y) (Statement only).	4	1. Textbook of Vipul Publication	**White board and Marker**
	Homogeneous linear system of two first order differential equations in two unknown functions of a single independent variable t,	4		

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	of the form dx/dt = a_1(t)x + b_1 (t)y, dy/dt = a_2 (t)x + b_2(t)y.			
	Wronskian for a homogeneous linear system of first order linear differential equations in two functions x, y of a single independent variable t. Vanishing properties of the Wronskian. Relation with linear independence of solutions.	3		
	Non-homogeneous linear system of linear system of two first order differential equations in two unknown functions of a single independent variable t, of the form dx/dt = a_1(t)x + b_1 (t)y + f_1 (t), dy/dt = a_2 (t)x + b_2(t)y+ f_2 (t). General Solution of non-homogeneous system. Relation between the solutions of a system of non-homogeneous linear differential equations and the associated system of homogeneous linear differential equations.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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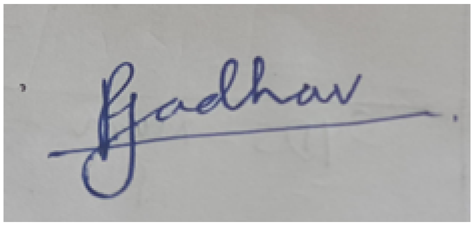

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NAAC accredited “B” Grade, 2.69 CGPA

TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: III MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand application of numerical solution of ODE.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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PAPER III Unit III Numerical Solution of Ordinary Differential Equations	rst order ordinary differential equation using: (i) Taylor's series method, (ii) Picard's method for successive approximation and its convergence, (iii) Euler's method and error estimates for Euler's method	4	1. Textbook of Vipul Publication	White board and Marker
	(iv) Modified Euler's Method, (v) Runge-Kutta method of second order and its error estimates, (vi) Runge-Kutta fourth order method.	4		
	2. Numerical solution of simultaneous and higher order ordinary differential equation using: (i) Runge-Kutta fourth order method for solving simultaneous ordinary differential equation	3		
	(ii) Finite difference method for the solution of two point linear boundary value problem.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: FYB.Sc (PCM/PMS) SEMESTER: I MONTH: AUGUST- NOVEMBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand the concept of integers and divisibility

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT I Integers & Divisibility	Statements of well-ordering property of non-negative integers, Principle of finite induction (first and second) as a consequence of Well-Ordering Principle.	4	1. Textbook of Sheth Publication	Black board, chalk and duster
	Divisibility in integers, division algorithm, greatest common divisor (g.c.d.) and least common multiple (l.c.m.) of two non zero integers, basic properties of g.c.d. such as existence and uniqueness of g.c.d. of two non zero integers a&b and that the g.c.d. can be expressed as ma + nb for some m, n $\in$ Z, Euclidean algorithm.	4		

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	Primes, Euclid's lemma, Fundamental Theorem of arithmetic, The set of primes is infinite, there are arbitrarily large gaps between primes, there exists infinitely many primes of the form 4n − 1 or of the form 6n − 1.	4		
	Congruence, definition and elementary properties, Results about linear congruence equations. Examples.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Archana Deepak Malpathak DEPARTMENT: ______Mathematics______________________ CLASS: _____TYIT______________

SEMESTER: ___V____________ MONTH: ___JUNE To September______________

ACADEMIC YEAR: ____2022-2023_________________

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED

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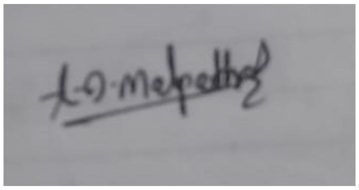
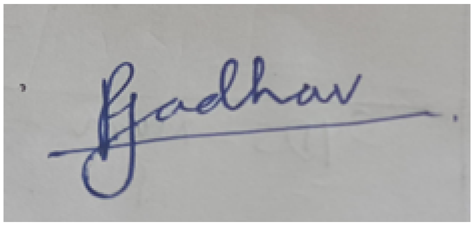
Unit No -1	GROUPS and Subgroup 1) Defination and elementary properties of a group.Orderof group, subgroup, criterian for a subset to a subgroup. A Eliana group, center of a group, Homomorphism and Isomorphism. 2) Example of group including z,Q,R,C,Kevin 4 group, symmetric and Alternating groupsS=the unit circle in c,GL®,SL®,On=order of group of n×noon singular upper triangular Matrices,Bn=Order of non singular upper triangular matrices and groups of symmetries of plane figures 3) Order of an element, subgroup generated by a subset of a group.	02	Abstract Algebra by S.K.Jain University of Algebra by N.S.Goplakrishnan	Blackboard and chalk





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TEACHING PLAN (UNIT PLAN)

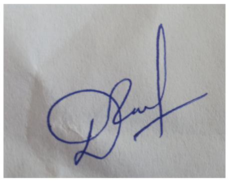
NAME OF THE STAFF: DIPASHREE PARAG VARTAK_______DEPARTMENT: MATHEMATICS _______ CLASS: TYBSC___________ SEMESTER: VI_______________MONTH: NOVEMBER TO MARCH_________________

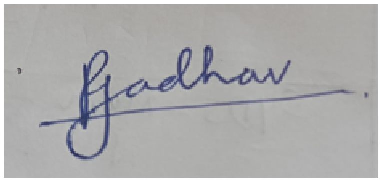
ACADEMIC YEAR:_2022-2023___________________

LEARNING OBJECTIVE/S:

- The learners will be able to : understand the concept of power series, to find radius of convergence of different power series and analyze the results, to acquire knowledge about Cauchy residue Theorem and its applications.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE /S	TEACHING METHOD/ ICT TOOLS USED
MATHEMATICS I BASIC COMPLEX ANALYSIS	Power series of complex numbers and related results	3	J. W. BROWN AND R.V.CHURCILL,	WHITE BOARD AND MARKERS, DUSTER





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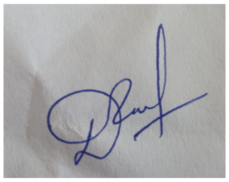
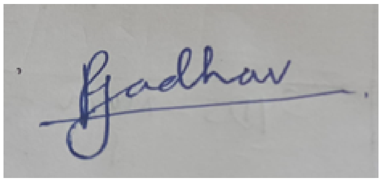
UNIT III **COMPLEX** POWER SERIES, LAURENT SERIES AND ISOLATE D SINGULA NTES.	Radius of convergences, disc of convergence, uniqueness of series representation, examples.	3	Complex analysis and applications	Explanation, Discussion, Problem solving assignments
	Definition of Laurent series , Definition of isolated singularity, statement (without proof) of existence of Laurent series expansion in neighbourhood of an isolated singularity,	4		
	type of isolated singularities viz. removable, pole and essential defined using Laurent series expansion, examples	3		
	Statement of Residue theorem and calculation of residue.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: _______15___





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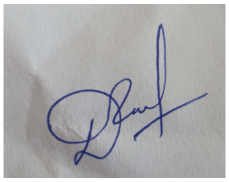
TEACHING PLAN (UNIT PLAN)

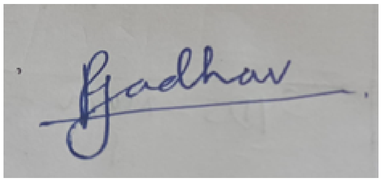
NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Sy BSc (PM/MS)

SEMESTE: sem III MONTH: July- November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
ORDINARY DIFFERENTIAL EQUATION UNIT-III	**Higher order Linear Differential equations:** **1.** The general n−th order linear differential equations, Linear independence, An existence and uniqueness theorem, the Wronskian, Classification: homogeneous and non-homogeneous, General solution of homogeneous and non-homogeneous LDE, The Differential operator and its properties.	15	Units 5, 6, 7 and 8 of E.D. Rainville and P.E. Bedient; Elementary Differential Equations; Macmillan.	Chalk and board





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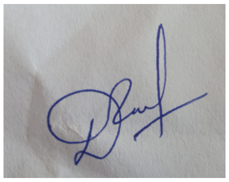
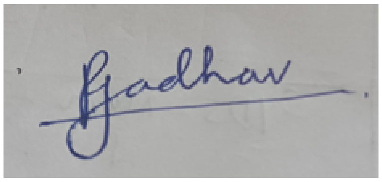
	2. Higher order homogeneous linear differential equations with constant coefficients, the auxiliary equations, Roots of the auxiliary equations: real and distinct, real and repeated, complex and complex repeated. 3.Higher order homogeneous linear differential equations with constant coefficients, the method of undermined coefficients, method of variation of parameters. 4. The inverse differential operator and particular integral, Evaluation of 1 f(D) for the functions like eax, sin ax, cos ax, xm, xm sin ax, xm cos ax, eaxV and xV where V is any function of x, 5. Higher order linear differential equations with variable coefficients: The Cauchy's equation: x3d3y/dx3+ x2 d2y/dx2+ x dy/dx + y = f(x) and The Legendre's equation: (ax + b)3d3y/dx3 + (ax +b)2 d2y/dx2+ (ax + b) dydx + y = f(x).			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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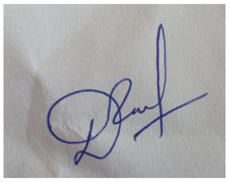
TEACHING PLAN (UNIT PLAN)

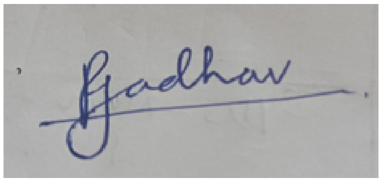
NAME OF THE STAFF: Rinkal A. Das DEPARTMENT: Mathematics CLASS: Fy BSc (PCM/PMS)

SEMESTE: sem I MONTH: July - November ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : develop critical and logical thinking and will able to solve various problems.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Calculus I UNIT-II: Sequences in R	(1) Definition of a sequence and examples, Convergence of sequences, every convergent sequences is bounded. Limit of a convergent sequence and uniqueness of limit, Divergent sequences. (2) Convergence of standard sequences like $(1/1 + na)\ \forall a > 0,\ (b\,n)\ \forall b,\ 0 < b$ (3) Algebra of convergent sequences, sandwich theorem, monotone sequences,	15	R. R. Goldberg, Methods of Real Analysis, Oxford and IBH, 1964. E. A. Coddington , An Introduction to Ordinary Differential	Chalk and board





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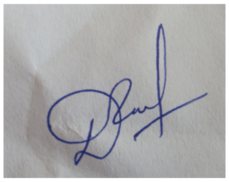
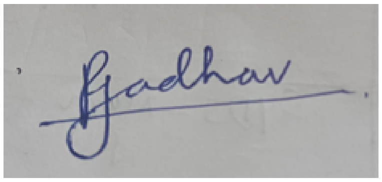
	monotone convergence theorem and consequences as convergence of $\left(\left(1+\frac{1}{n}\right)^{\wedge} n\right)$. (4) Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.		Equations.Prentice Hall, 1961.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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Teaching plan for T.Y.B.Sc. (Maths) sem 5 2022-23
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Manisha Machhindra Kotkar

DEPARTMENT: Mathematics

CLASS: Tybsc(Maths)

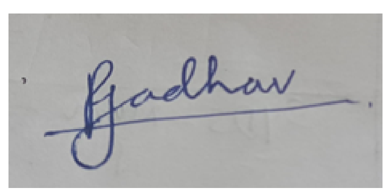
SEMESTER: 5

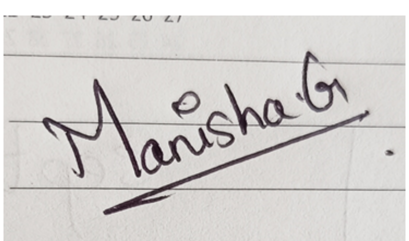
MONTH: August to December

ACADEMIC YEAR: 2022-23

LEARNING OBJECTIVE/S:
The learners will be able to :

- Demonstrate an understanding of concepts of metric spaces and topological spaces and their roll in mathematics.
- prove the basic results about compactness.
- Apply the theory in course to solve variety of problems at an appropriate level of difficulties
- Demonstrate the skill in communicating mathematics orally and in writing.





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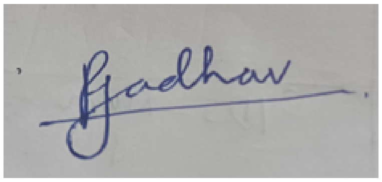
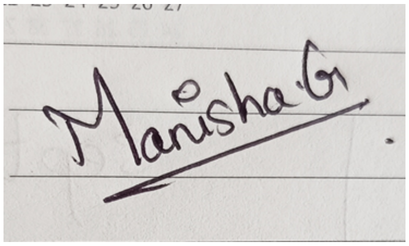
PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USMT503 **Topology of Metric Space** **unit 1**	Metric space;: ● Definition and examples of Metric spaces R , R^2 , Euclidean space R^n with it's Euclidean ● Sup and sum metric, complex jumper metric ● The space l^1 and $l^2$of sequence and the space C[a,b] of real valued continuous functions on [a,b] ● Discrete metric space	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	● Distance metric induced by the norm, translation invariance of metric induced by norm ● Metric subspaces ● Product of two metric spaces	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster





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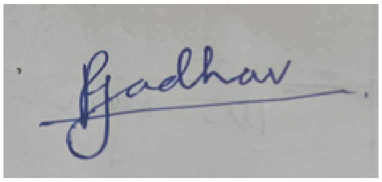
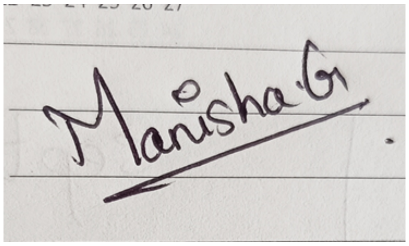
	• Open balls and open sets in metric space • Examples of open sets in various metric space • Haus-droff property, Interior of a set • Properties of open sets, structure of open sets in R • Equivalent metrices	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	• Distance of a point from a set, between two sets • Diameter of a set in metric space • Bounded sets	2	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	• Closed ball and closed set in metric space- definition and example • Limit point of a set • Isolated point • Closed set contains all its limit points	4	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster





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	• Closure of a set and boundary of a set			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 lectures

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
USMT503 **Topology of Metric Space** **<u>unit 3</u>**	**Compact set:** • Definition of compact set using open cover • Examples of compact sets in different metric spaces R,R^2 , R^n,	4	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	Properties of compact set: • A compact set is closed and bounded(converse is not true) • Every infinite bounded subset of compact set has limit point	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster

Jadhav

Manisha G.

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	• A closed subset of compact set is compact. • Union and intersection of compact sets	3	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster
	Equivalent statements for compact set: • Sequential compactness property • Heine- Borel property • Closed and boundedness property • Bolzano-Weierstrass property	5	P.K. Jain, K.Ahmed, Metric spaces Narosa, New Delhi, 1996	Black board, chalk and duster

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15 Lectures

Jadhav

Manisha G.

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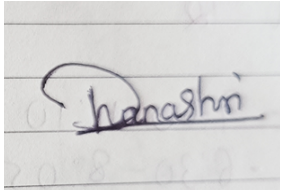
TEACHING PLAN (UNIT PLAN)

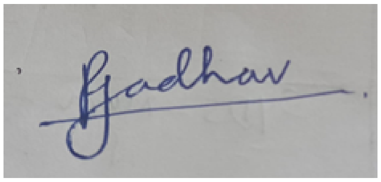
NAME OF THE STAFF: Ms. Dhanashri Ravikant Pawar. DEPARTMENT: Mathematics. CLASS: TY B.Sc. Mathematics SEMESTER: V

MONTH: July ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to: Understand applications of derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I: Multivariable Calculus II Unit III: Surface Integral	Parameterized surfaces. Smoothly equivalent parameterizations. Examples.	2	G. B. Thomas and R.L Finney T.Y.B.Sc Calculus -Sheth publications 2. T. M. Apostol, Calculus Vol I	Chalk board method.
	Area of such surfaces. Definition of surface integrals of scalar-valued functions as well as of vector fields defined on a surface.	4		
	Curl and divergence of a vector field. Elementary identities involving gradient, curl and divergence.	3		
	Stroke's Theorem (proof assuming the general from of Green's Theorem).	3		
	Gauss' Divergence Theorem (proof only in the case of cubical domains). Examples	3		





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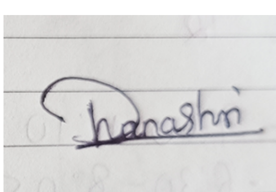
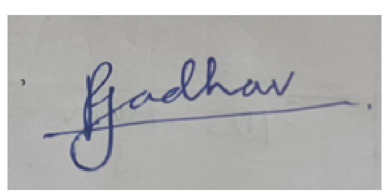
TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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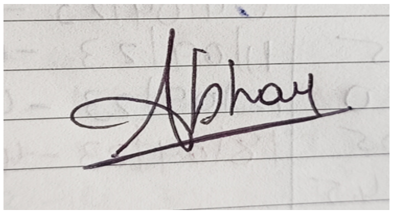
TEACHING PLAN (UNIT PLAN)

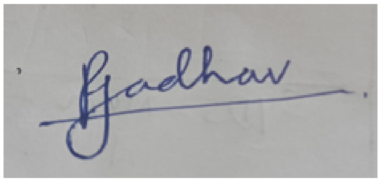
NAME OF THE STAFF: _Mr. ABHAY SHASHIKANT DHANMEHER DEPARTMENT: MATHEMATICS CLASS: T.Y.B.Sc.MATHS

SEMESTER: V MONTH: JULY – OCTOBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to :

PAPER, UNIT, TITLE	**SUBTOPICS**	**NO OF LECTURES ALLOTED**	**REFERENCE/S**	**TEACHING METHOD/ ICT TOOLS USED**
Applied Component Computer Programming and system analysis UNIT – I **RELATIONAL DATA BASE MANAGE**	**Introduction to Data base Concepts**: Database, Overview of data base management system. Data base Languages- Data Definition Languages (DDL) and Data Manipulation Languages (DML).	3	Data base management system, RamKrish	Black-Board
	Entity Relation Model : Entity, artibutes, keys, relations, Designing ER diagram, integrity Constraints over relations, conversion of ER to relations with and without constrains.	3		
	SQL Commands and functions Creating and altering tables: Handling data using SQL selecting data using SELECT statement, FROM clause, WHERE clause, HAVING clause, ORDERBY, GROUP BY, DISTINCT and	3		





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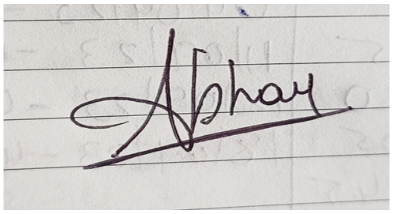
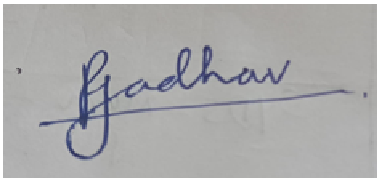
MENT SYSTEM	ALL predicates, Adding data with INSERT statement,		nam, Gehrke, McGraw-Hill	
	c) Functions: Aggregate function, Numeric Funstion,String Function, Data function, Clauses of commands Group by, Having	3		
	d) Joining tables: Inner, outer and cross joins, union.Clauses	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15





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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: BIJOYA SARMA DEPARTMENT: MATHEMATICS

CLASS: TYB.Sc (MATHS) SEMESTER: V MONTH: JULY - OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : understand the concept of cyclic group , subgroup and its generators.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT II Cyclic group and cyclic susubgroup	Examples of cyclic groups such as Z and the group µn of the n−th roots of unity.	2	1.University Algebra by N.S. Gopalkrishna 2. Abstract Algebra By Khanna & Bhambri	White board & Marker
	Properties of cyclic groups and cyclic subgroup	4		
	Finite cyclic groups	3		
	Infinite cyclic groups and their generators.	4		

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	Properties of generators.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

TEACHING PLAN (UNIT PLAN)

CLASS: TYB.Sc (MATHS) SEMESTER: V MONTH: JULY- OCTOBER

ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : understand the concept of Lagrange's theorem with the help of normal subgroup.

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PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER II, UNIT III Lagrange's Theorem	Cosets of a subgroup in a group. Lagrange's Theorem. Normal subgroups.	4	1.University Algebra by N.S. Gopalkrishna 2.Contemporary Abstract Algebra by J. Gallian	White board & Marker
	Alternating group An. Listing normal subgroups of A4, S3. Quotient (or Factor) groups. Fundamental Theorem of homomorphisms of groups.	4		
	The group Z/nZ of residue classes (mod n). Characterization of cyclic groups (as being isomorphic to Z or Z/nZ for some n $\in$ N).	4		
	Cayley's Theorem for finite groups.	1		
	External direct products of groups. Examples.	2		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: IV (Maths Paper II) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Definition of a linear transformation of vector spaces; elementary properties, Rank-Nullity Theorem, Invertible linear transformations,Similar matrices.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT I. Linear Transformation	1. Definition of a linear transformation of vector spaces; elementary properties. Examples. Sums and scalar multiples of linear transformations. Composites of linear transformations. A Linear transformation of $V \longrightarrow W$, where V, W are vector spaces over R and V is a finite-dimensional vector space is completely determined by its action on an ordered basis of V.	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	2. Null-space (kernel) and the image (range) of a linear transformation. Nullity and rank	4		

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TEACHING PLAN (UNIT PLAN)

	of a linear transformation. Rank-Nullity Theorem (Fundamental Theorem of Homomor-phisms).			
	3. Matrix associated with linear transformation of V $\longrightarrow$ W where V and W are finite dimensional vector spaces over R.. Matrix of the composite of two linear transformations. Invertible linear transformations (isomorphisms), Linear operator, Effect of change of bases on matrices of linear operator.	4		
	4. Equivalence of the rank of a matrix and the rank of the associated linear transformation. Similar matrices.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYB.Sc (PM/MS) **SEMESTER: IV (Maths Paper II)** **MONTH: December-March** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to learn inner product space, properties, Cauchy Schwarz Inequality, orthogonal complement, orthogonal decomposition.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT II. Inner Products and Orthogonality	Inner product spaces (over R). Examples, including the Euclidean space Rn and the space of real valued continuous functions on a closed and bounded interval. Norm associated to an inner product. Cauchy-Schwarz inequality. Triangle inequality.	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	Angle between two vectors. Orthogonality of vectors. Pythagoras theorem and some	4		

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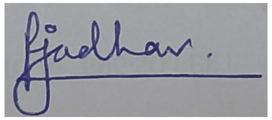
	geometric applications in R2 . Orthogonal sets, Orthonormal sets. Gram-Schmidt orthogonalizaton process. Orthogonal basis and orthonormal basis for a finite-dimensional inner product space.			
	Orthogonal complement of any set of vectors in an inner product space. Orthogonal complement of a set is a vector subspace of the inner product space	4		
	Orthogonal decomposition of an inner product space with respect to its subspace. Orthogonal projection of a vector onto a line (one dimensional subspace). Orthogonal projection of an inner product space onto its subspace.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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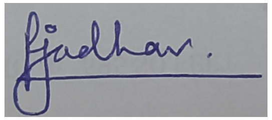

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYB.Sc (PM/MS) SEMESTER: IV (Maths Paper II) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to learn eigen values and eigen vector of linear transformation, Cayley Hamilton Theorem, diagonalisable matrix,spectral theorem and application to quadratic form

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II UNIT III. Eigenvalues, Eigenvectors and Diagonalisation	Eigenvalues and eigenvectors of a linear transformation of a vector space into itself and of square matrices. The eigenvectors corresponding to distinct eigenvalues of a linear transformation are linearly independent. Eigen spaces. Algebraic and geometric multiplicity of an eigenvalue	3	2. Serge Lang; Introduction to Linear Algebra; Springer.	Chalk and duster ,black board
	Characteristic polynomial. Properties of characteristic polynomials (only statements). Examples. Cayley-Hamilton Theorem. Applications. Invariance of the characteristic polynomial and eigenvalues of similar matrices	4		

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	Diagonalisable matrix. A real square matrix A is diagonalisable if and only if there is a basis of Rn consisting of eigenvectors of A. (Statement only - An×n is diagonalisable if and only if sum of algebraic multiplicities is equal to sum of geometric multiplicities of all the eigenvalues of A = n). Procedure for diagonalising a matrix.	4		
	Spectral Theorem for Real Symmetric Matrices (Statement only). Examples of orthogonal diagonalisation of real symmetric matrices. Applications to quadratic forms and classification of conic sections.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper I) MONTH: July -September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of infinite series,test for convergence,alternating infinite series briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
	1. Infinite series in R. Definition of convergence and divergence. Basic examples including geometric series. Elementary results for n=1 but converse not true. Cauchy Criterion. Algebra of convergent series	3		
	Tests for convergence: Comparison Test, Limit Comparison Test, Ratio Test (without proof), Root Test (without proof), Abel Test (without proof) and Dirichlet Test (without proof).	4		
	Examples. The decimal expansion of real numbers. Convergence of $\sum 1/n^p$	4		

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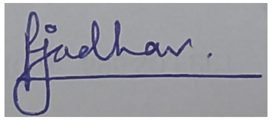
	Divergence of harmonic series $\sum 1/n$			

PAPER I, UNIT I Infinite Series			1. Sudhir Ghorpade, Balmohan Limaye; A Course in Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and IBH Pub. Co.,	Chalk,Duster and Blackboard
	Alternating series. Leibnitz's Test. Examples. Absolute convergence, absolute convergence implies convergence but not conversely. Conditional Convergence.	4		



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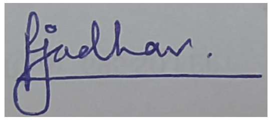

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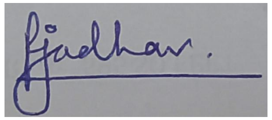
			New Delhi, 1970.	

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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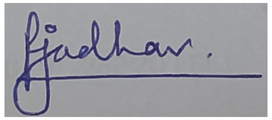

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper I) MONTH: July -September ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Riemann integrable function , their algebra, criterion of Riemann integrable function.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Riemann Integration	1)Idea of approximating the area under a curve by inscribed and circumscribed rectangles. Partitions of an interval. Refinement of a partition. Upper and Lower sums for a bounded	3	1. Sudhir Ghorpade, Balmohan Limaye; A Course in	Chalk,Duster and Blackboard

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	real valued function on a closed and bounded interval. Riemann integrability and the Riemann integral.		Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and IBH Pub. Co., New Delhi, 1970.	
	2)Criterion for Riemann integrability. Characterization of the Riemann integral as the limit of a sum. Examples	4		
	3. Algebra of Riemann integrable functions. Also, basic results	4		
	4)Riemann integrability of a continuous function, and more generally of a bounded function whose set of discontinuities has only finitely many points. Riemann integrability of monotone functions.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYBSC (PM/MS) **SEMESTER: III (Subject -Maths Paper I)** **MONTH: July -September** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to : concept the of area between the two curves,first and second fundamental theorem of calculus, Beta and Gamma function

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/ S	TEACHING METHOD/ ICT TOOLS USED
PAPER I Unit III Applications of Integrations and Improper Integrals	1.Area between the two curves. Lengths of plane curves. Surface area of surfaces of revolution.	3	1. Sudhir Ghorpade, Balmohan Limaye; A Course in Calculus and Real Analysis (second edition); Springer. 2. R.R. Goldberg; Methods of Real Analysis; Oxford and	Chalk,Duster and Blackboard
	2Continuity of the function . First and Second Fundamental Theorems of Calculus.	4		
	3Mean value theorem. Integration by parts formula. Leibnitz's Rule. 4. Definition of two types of improper integrals. Necessary and sufficient conditions for convergence.	4		
	5Absolute convergence. Comparison and limit comparison tests for convergence. 6. Gamma and Beta functions and their properties. Relationship between them (without	4		

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	proof).		IBH Pub. Co., New Delhi, 1970.	

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper II) MONTH: June -October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of System of Equations, Matrices, Determinants briefly

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit I. System of Equations, Matrices	1. Systems of homogeneous and non-homogeneous linear equations, Simple examples of find- ing solutions of such systems. Geometric and algebraic understanding of the solutions. Matrices (with real entries), Matrix representation of system of homogeneous and non-homogeneous linear equations. Algebra of solutions of systems of homogeneous linear equations. A system of homogeneous linear equations with number of unknowns more than the number of equations has infinitely many solutions.	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear Algebra - A Geometric Approach, PHI Learning.	Chalk ,duster , blackboard
	2. Elementary row and column operations. Row equivalent matrices. Row reduction (of a matrix to its row echelon form). Gaussian elimination. Applications to solving systems of linear equations. Examples	4		

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TEACHING PLAN (UNIT PLAN)

	Elementary matrices. Relation of elementary row operations with elementary matrices. Invertibility of elementary matrices. Consequences such as (i) a square matrix is invertible if and only if its row echelon form is invertible.	4		
	ii) invertible matrices are products of elementary matrices. Examples of the computation of the inverse of a matrix using Gauss elimination method	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS: SYBSC (PM/MS) **SEMESTER: III (Subject -Maths Paper II)** **MONTH: June -October** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S: The learners will be able to understand concept the ofVector Space, Subspace, basis of a vector space, properties .

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit II. Vector space over R	Definition of a vector space over R. Subspaces; criterion for a nonempty subset to be a subspace of a vector space. Examples of vector spaces, including the Euclidean space Rn , lines, planes and hyperplanes in Rn passing through the origin, space of systems of homogeneous linear equations, space of polynomials, space of various types of matrices, space of real valued functions on a set.	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear Algebra - A Geometric Approach, PHI Learning.	Chalk ,duster , blackboard
	Intersections and sums of subspaces. Direct sums of vector spaces. Quotient space of a vector space by its subspace.	4		
	Linear combination of vectors. Linear span of a subset of a vector space. Definition of a finitely generated vector space. Linear dependence and independence of subsets of a vector	4		

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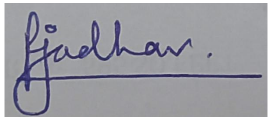
	space.			
	Basis of a vector space. Basic results that any two bases of a finitely generated vector space have the same number of elements. Dimension of a vector space. Examples. Bases of a vector space as a maximal linearly independent sets and as minimal generating sets.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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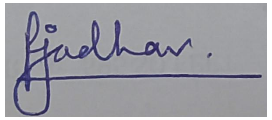

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: SYBSC (PM/MS) SEMESTER: III (Subject -Maths Paper II) MONTH: June -October ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:The learners will be able to understand concept the ofdeterminant and properties of determinant,row and column Space

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper II Unit III. Determinants, Linear Equations	1. Inductive definition of the determinant of a n × n matrix (e. g. in terms of expansion along the first row). Example of a lower triangular matrix. Laplace expansions along an arbitrary row or column. Determinant expansions using permutations 2. Basic properties of determinants (Statements only); (i) det A = det AT	4	1)Serge Lang, Introduction to Linear Algebra, Springer. 2) S Kumaresan, Linear	Chalk ,duster , blackboard

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	. (ii) Multilinearity and alternating property for columns and rows. (iii) A square matrix A is invertible if and only if det A 6= 0. (iv) Minors and cofactors. Formula for A−1 when det A 6= 0. (v) det(AB) = det A det B.		Algebra - A Geometric Approach, PHI Learning.	
	3. Row space and the column space of a matrix as examples of vector space. Notion of row rank and the column rank. Equivalence of the row rank and the column rank. Invariance of rank upon elementary row or column operations. Examples of computing the rank using row reduction.	4		
	4. Relation between the solutions of a system of non-homogeneous linear equations and the associated system of homogeneous linear equations. Necessary and sufficient condition for a system of non-homogeneous linear equations to have a solution [viz., the rank of the coefficient matrix equals the rank of the augmented matrix [A|B]]. Equivalence of statements (in which A denotes an n × n matrix) such as the following.	4		

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	(i) The system Ax = b of non-homogeneous linear equations has a unique solution. (ii) The system Ax = 0 of homogeneous linear equations has no nontrivial solution. (iii) A is invertible. (iv) det A 6= 0. (v) rank(A) = n.			
	5. Cramers Rule. LU Decomposition. If a square matrix A is a matrix that can be reduced to row echelon form U by Gauss elimination without row interchanges, then A can be factored as A = LU where L is a lower triangular matrix.	3		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: STATISTICS

CLASS: TYB.Sc (STATISTICS) SEMESTER: V Subject -(Stats Paper V) MONTH:JULY-NOVEMBER ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : learn mathematical formulation,simplex method, properties of duality

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper V Unit I : LINEAR PROGRAMMING PROBLEM	Mathematical Formulation : Maximization and Minimization type problems. Concepts of solution, Feasible solution,	3	1..Kantiswarup, P. K. Gupta, Manmohan : Operations Research, Twelfth edition, Sultan Chand & sons. 2. Sharma S. D. : Operations Research, Eighth edition, KedarnathRamnath& Co	Chalk, duster, blackboard
	Basic solution, Basic feasible solution, Optimal solution. Graphical solution to problems.	4		
	. Simplex method of solving problems with two or more variables. Big M method. Concept of Duality,	4		
	Properties of Duality. Its use in solving L.P.P. Relationship between optimum solutions to Primal and Dual. Economic interpretation of Dual.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS: FYB.Sc (PCM) SEMESTER: II (Subject : _______Maths Paper I__________)

MONTH: ____________ ACADEMIC YEAR: __________

MONTH: January-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to : definition of limit, continuity, intermediate value theorem

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-I: Limits and Continuity	{Brief review: Domain and range of a function, injective function, surjective function, bijective function, composite of two functions (when defined), Inverse of a bijective function. Graphs of some standard functions such as |x|, ex, log x, over suitable intervals of R.}	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing	Chalk and duster method, black board

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TEACHING PLAN (UNIT PLAN)

	(1) $\varepsilon - \delta$ definition of Limit of a function, uniqueness of limit if it exists, algebra of limits, limits of composite function, sandwich theorem, left-hand-limit f(x), right-handlimit lim f(x), non-existence of limits	4	company, 1994.	
	(2) Continuous functions: Continuity of a real valued function at a point and on a set using $- \delta$ definition, examples, Continuity of a real valued function at end points of domain using definition, f is continuous at a if and only if lim $x \longrightarrow a f(x)$ exists and equals to f(a), Sequential continuity, Algebra of continuous functions, discontinuous functions, examples of removable and essential discontinuity.	4		
	(3) Intermediate Value theorem and its applications, Bolzano-Weierstrass theorem (statement only): A continuous function on a closed and bounded interval is bounded and attains its bounds.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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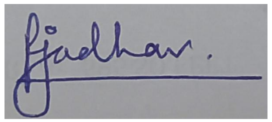
TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS
CLASS: FYB.Sc (PCM) SEMESTER: II (Subject : _______Maths Paper I__________)
MONTH: ____________ ACADEMIC YEAR: __________
MONTH: January-April ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of Differentiation,examples of differentiable functions,Chain rule, derivatives of inverese functions briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-II: Differentiability	Differentiation of real valued function of one variable: Definition of differentiability of a function at a point of an open interval,	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing company, 1994.	Chalk and duster method
	examples of differentiable and non differentiable functions, differentiable functions are continuous but not conversely, algebra of differen-tiable function	4		



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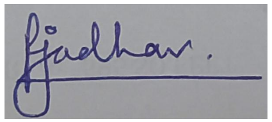

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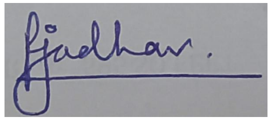
TEACHING PLAN (UNIT PLAN)

	Chain rule, Higher order derivatives, Leibniz rule,	4		
	Derivative of inverse functions, Implicit differentiation (only examples)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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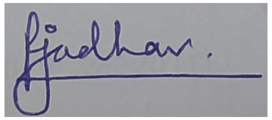

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TEACHING PLAN (UNIT PLAN)

CLASS: FYB.Sc (PCM) **SEMESTER: II** **(Subject : _______Maths Paper I__________)**

MONTH: ____________ **ACADEMIC YEAR: __________**

MONTH: January-April **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to Mean Value Theorem,L-Hospital rule

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I Unit-III Applications of differentiability	Rolle's Theorem, Lagrange's and Cauchy's Mean Value Theorems, applications and examples, Monotone increasing and decreasing functions, examples.	3	James Stewart, Calculus, Third Edition, Brooks/ Cole Publishing company, 1994.	Chalk and duster method, black board
	L-Hospital rule (without proof), examples of indeterminate forms, Taylor's theorem with Lagrange's form of remainder with proof, Taylor polynomial and applications.	4		

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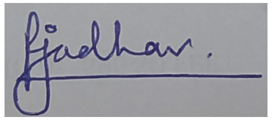
TEACHING PLAN (UNIT PLAN)

	Definition of critical point, local maximum/minimum, necessary condition, stationary points, second derivative test, examples, concave/convex functions, point of inflection	4		
	Sketching of graphs of functions using properties.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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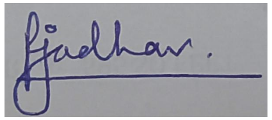

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:SYBSC (PM/MS) SEMESTER: IV (Maths Paper I) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the concept of vectors in R^n ,algebra of sequence in R^n,functions of several variables briefly.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT I. Functions of Several Varisables	1. Review of vectors in R^n n=2,3and basic notions such as addition and scalar multiplication, inner product, length (norm), and distance between two points	3	R. G. Bartle- D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	2. Real-valued functions of several variables (Scalar fields). Graph of a function. Level sets (level curves, level surfaces, etc). Examples. Vector valued functions of several variables (Vector fields). Component functions. Examples.	4		
	Algebra of convergent sequences, sandwich theorem, monotone sequences, monotone convergence theorem and consequences as convergence of $\left((1+\frac{1}{n})^n\right)$	4		
	Definition of subsequence, subsequence of a convergent sequence is convergent and converges to the same limit, definition of a	4		

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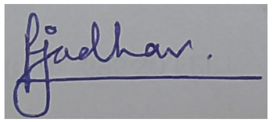
TEACHING PLAN (UNIT PLAN)

	Cauchy sequences, every convergent sequences s a Cauchy sequence and converse.			

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15



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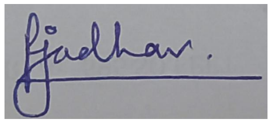

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav **DEPARTMENT: MATHEMATICS**

CLASS:SYBSC (PM/MS) **SEMESTER: IV** **(Maths Paper I) MONTH: December-March** **ACADEMIC YEAR: 2022-2023**

LEARNING OBJECTIVE/S:

The learners will be able to Differentiability of scalar fields, Gradient, relation between total derivative and gradient, Euler theorem, higher order partial derivative.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT II. Differentiation of Scalar Fields	Differentiability of scalar fields (in terms of linear transformation). The concept of (total) derivative. Uniqueness of total derivative of a differentiable function at a point. Examples of functions of two or three variables. Increment Theorem. Basic properties including (i) continuity at a point of differentiability, (ii)existence of partial derivatives at a point of differentiability, and (iii) differentiability when the partial derivatives exist and are continuous.	3	R. G. Bartle-D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	Gradient. Relation between total derivative and gradient of a function. Chain rule. Geometric properties of gradient. Tangent planes	4		

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TEACHING PLAN (UNIT PLAN)

	Euler's Theorem.	4		
	Higher order partial derivatives. Mixed Partial Theorem (n=2)	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:SYBSC (PM/MS) SEMESTER: IV (Maths Paper I) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S: The learners will be able to learn application of differentiation of scalar field, derivative test, differentiation of vector field,chainrule.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
Paper I UNIT III. Applications of Differentiation of Scalar Fields and Differentiation of Vector Fields	Applications of Differentiation of Scalar Fields: The maximum and minimum rate of change of scalar fields. Taylor's Theorem for twice continuously differentiable functions. Notions of local maxima, local minima and saddle points.	3	R. G. Bartle-D. R. Sherbert, Introduction to Real Analysis, John Wiley & Sons, 1994.	Chalk, duster, blackboard
	First Derivative Test. Examples. Hessian matrix. Second Derivative Test for functions of two variables. Examples. Method of Lagrange Multipliers.	4		
	Differentiation of Vector Fields: Differentiability and the notion of (total) derivative. Differentiability of a vector field implies continuity, Jacobian matrix	4		

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TEACHING PLAN (UNIT PLAN)

	Relationship between total derivative and Jacobian matrix. The chain rule for derivative of vector fields (statements only).	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to : concept the of coloring of graph, planar graphs, combinatorics.

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT I Colorings of graph	Vertex coloring- evaluation of vertex chromatic number of some standard graphs, critical graph.	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster method,black board
	Upper and lower bounds of Vertex chromatic Number- Statement of Brooks theorem. Edge coloring- Evaluation of edge chromatic number of standard graphs such as complete graph,	4		
	complete bipartite graph, cycle. Statement of VizingTheorem. Chromatic polynomial of graphs- Recurrence Relation and properties of Chromatic polynomials. Vertex and Edge cuts vertex	4		
	the relation between vertex and edge connectivity. Equality of vertex and edge connectivity of cubic graphs. Whitney's theorem on 2-vertex connected graph	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:

The learners will be able to planar graph,5 color theorem, network and flow,max flow and min cut theorem

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT II Planar graph	Definition of planar graph. Euler formula and its consequences. Non planarity of K5 ; K(3; 3). Dual of a graph. Polyhedran in ℝ and existence of exactly five regular polyhedra-	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster , black board
	(Platonic solids) Colorabilty of planar graphs- 5 color theorem for planar graphs	4		
	statement of 4 color theorem. Networks and flow and cut in a network- value of a flow and the capacity of cut in a network	4		
	relation between flow and cut. Maximal flow and minimal cut in a network and Ford-Fulkerson theorem.	4		

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TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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TEACHING PLAN (UNIT PLAN)

NAME OF THE STAFF: Rakhee N Jadhav DEPARTMENT: MATHEMATICS

CLASS:TYB.Sc (Mathematics) SEMESTER: VI (Subject -Maths Paper IV) MONTH: December-March ACADEMIC YEAR: 2022-2023

LEARNING OBJECTIVE/S:
The learners will be able to learn Applications of Inclusion Exclusion Principle, solving recurrence relation, hall's theorem of SDR

PAPER, UNIT, TITLE	SUBTOPICS	NO OF LECTURES ALLOTED	REFERENCE/S	TEACHING METHOD/ ICT TOOLS USED
PAPER I, UNIT III Combinatorics	Applications of Inclusion Exclusion Principle- Rook polynomial, Forbidden position problems Introduction to partial fractions and using Newton's binomial theorem for real power find series	3	1 Bondy and Murty Grapgh, Theory with Applications. 2 Balkrishnan and Ranganathan, Graph theory and applications.	Chalk and duster,black board
	expansion of some standard functions. Forming recurrence relation and getting a generating function.	4		
	Solving a recurrence relation using ordinary generating functions. System of Distinct Representatives	4		
	Hall's theorem of SDR.	4		

TOTAL NUMBER OF LECTURES ALLOCATED TO THE UNIT: 15

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