

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)



Fundamentals of Microbiology Techniques (CC-FMT)



Vishnu Waman Thakur Charitable Trust's
Bhaskar Waman Thakur College of Science
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Vidhya Dayanand Patil College of Arts
(VIVA College)

Department of Biochemistry
in collaboration with IQAC organizes a certificate course on

Fundamentals of Microbiology Techniques

COURSE CONTENT:

- INTRODUCTION TO MICROBIOLOGY
- LABORATORY SAFETY AND ASEPTIC TECHNIQUES
- MICROSCOPY
- CULTURE TECHNIQUES
- STAINING TECHNIQUES AND IDENTIFICATION TECHNIQUES
- MICROBIAL TECHNIQUES IN BIOTECHNOLOGY
- CLINICAL MICROBIOLOGY TECHNIQUES
- ENVIRONMENTAL AND INDUSTRIAL MICROBIOLOGY TECHNIQUES

Resource Persons:

Mr. Vinodkumar Didwana

Ms. Tanvi Bore

Mr. Sunil Jaisawar



Old VIVA College, Herbal lab



5th Sept - 9th Sept 2022

Ms. Tanvi Bore
Course Coordinator

Dr. Deepa Verma
Biochemistry Coordinator &
IQAC Coordinator

Mrs. Prajakta Paranjape
Vice Principal

Dr. V.S Adigal
Principal



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Resource Persons:

Mr. Vinodkumar Didwana

Ms. Tanvi Bore

Mr. Sunil Jaisawar



Old VIVA College Instrumentation lab



31st Oct - 4th Nov 2022

Ms. Tanvi Bore
Course Coordinator

Dr. Deepa Verma
Biochemistry Coordinator &
IQAC Coordinator

Mrs. Prajakta Paranjape
Vice Principal

Dr. V.S Adigal
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Resource Persons:

Mr. Vinodkumar Didwana

Ms. Tanvi Bore

Mr. Sunil Jaisawar



Old VIVA College Instrumentation lab



9th Jan - 13th Jan 2023

Ms. Tanvi Bore
Course Coordinator

Dr. Deepa Verma
Biochemistry Coordinator &
IQAC Coordinator

Mrs. Prajakta Paranjape
Vice Principal

Dr. V.S Adigal
Principal



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Resource Persons:

Mr. Vinodkumar Didwana

Ms. Tanvi Bore

Mr. Sunil Jaisawar



Old VIVA College Instrumentation lab



27th Feb - 3rd Mar 2023

Ms. Tanvi Bore
Course Coordinator

Dr. Deepa Verma
Biochemistry Coordinator &
IQAC Coordinator

Mrs. Prajakta Paranjape
Vice Principal

Dr. V.S Adigal
Principal



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Yashvant Keshav Patil College of Commerce
Vidhya Dayanand Patil College of Arts
(VIVA College)
(Affiliated to University of Mumbai)**

**Department of Biochemistry
Certificate Course on Fundamentals of Microbiology Techniques
Year: 2022-23**

The Department of Biochemistry in association with IQAC proposes a short-term certificate course (Non-Credit) on Fundamentals of Microbiology Techniques (Course Code- SMTSTP01) (S= Science, MT= Microbiology techniques , STP= Short Term Program, 01- Assigned Number of the Course)

Course description:

This course is designed to provide college-level science students with a strong foundation in essential microbiology techniques. Participants will learn the principles and practical skills required for working with microorganisms in laboratory settings.

Batch 01 - 5th Sept - 9th Sept 2022

Batch 02 - 31st Oct - 4th Nov 2022

Batch 03 - 9th Jan - 13th Jan 2023

Batch 04 - 27th Feb - 3rd Mar 2023

Who can attend	Students
Batch size	25 Students maximum
Course duration	Total 30 Hrs
Course fees	Not applicable
Venue	Old VIVA College Instrumentation lab
Course Timing	9:00 am onwards (Theory) 9:00 am onwards (Practical, or when called for)
Resource Person	Mr. Vinodkumar Didwana Ms. Tanvi Bore Mr. Sunil Jaisawar
Contact Person	Mr. Vinodkumar Didwana (9673236800) Ms. Tanvi Bore (9765878999)

Course Content and Schedule:

Module	Day	Duration	Topic
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1	Day 1	3 hours	Introduction to Microbiology
2	Day 1	4 hours	Laboratory Safety and Aseptic Techniques
3	Day 2	4 hours	Microscopy
4	Day 2	4 hours	Culture Techniques
5	Day 3	6 hours	Staining Techniques and Identification Techniques
6	Day 4	4 hours	Microbial Techniques in Biotechnology
7	Day 4	3 hours	Clinical Microbiology Techniques
8	Day 5	2 hours	Environmental and Industrial Microbiology Techniques

Assessment: Assessment will be based on regular quizzes, laboratory exercises, a final project, and a comprehensive final exam.

This 30-hour course offers a solid foundation in microbiology techniques for college students. It combines theoretical knowledge with hands-on practical experience, covering a wide range of topics to prepare students for future studies and careers in microbiology and related fields.