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)

Introduction to LaTex, R and Sage Math (CC-LRSM)

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VIVA College

LATEX
R PROGRAMMING
SAGE MATHS

Unlock Your Potential .Dive into extra skill Development with our Add-On Courses! Elevate Your expertise and Shape a brighter future.

Department of Mathematics And Statistics Proposes

Add-On COURSE

For Detail Contact

Bijoya Sarma	7219550509
Satyaprakash Mishra	8806499619
Shivlal Yadav	8329925881

Duration – 30 Hours
Registration login from student portal (www.vivacollege.org)

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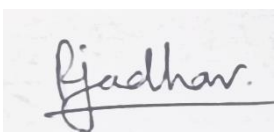
CERTIFICATE COURSE

Sr. No	Particulars	
1.	Department	Mathematics and Statistics
2.	Name of the Course and Course Code	Introduction to LaTex, R and Sage Math
3.	Code	CC-LRSM
4.	Duration	30 Hours
5.	Date of Commencement	05 March 2024
6.	Curriculum / Syllabus copy of the course	Module 1 Duration: 8 hours: Fundamentals of Latex, Introduction, Installation, Document, Mathematical Typesetting, Font Styles Module 2 Duration 7 hours: Working With Latex: Tables, Arrays and List, Multiline Equations, Formatting, and slides, Working with Overleaf. Module 3 Duration 8 hours: Getting Started with R, Syntax, Comments, Variables, Data Types, Numbers, Math Strings, Booleans, Operators, If...Else, While Loop, R For Loop, Functions, Data Manipulation and visualization. Module 4 Duration 7 hours: Review of Basic Concepts, Limit, Continuity, Derivative, domain, range of one variable function, Application of derivative, Graphing, Integration, application of integration. Some topics from Linear Algebra, Basic Algebra and Statistics.

7.	Committee (BoS) for framing of syllabus	1. Chairman: Rakhee Jadhav Madhu Sharma 2. Coordinator: Bijoya Sarma 3. Member: Satyaprakash Mishra 4. Member: Shivlal Yadav
8.	Mode of Delivery of the curriculum	Online and offline
9.	Assessment procedure	Participants in the R and LaTeX courses undergo comprehensive assessments. For R, quizzes, coding assignments, a group project, and a final exam evaluate programming skills. In the LaTeX course, practical exercises, document creation tasks, and a final project assess document formatting proficiency. Certificates are awarded based on active participation, successful projects, and exam performance, ensuring a well-rounded evaluation of skills in both domains. Feedback session will be conducted during the certificate distribution program.
10.	Outcomes of the program	1.Participants in the LaTeX course gain comprehensive document typesetting skills, enhancing professional document creation significantly. 2. The introduction to R programming provides a comprehensive overview, serving as a foundational step into data science. 3. SageMath course offers users a comprehensive introduction to open-source mathematics software, equipping them with versatile computation and analysis tools. 4.This newfound proficiency in LaTeX will significantly enhance their productivity and the quality of their written work.

Couse Coordinator
Bijoya Sarma



HOD Mathematics
Rakhee Jadhav

HOD Statistics
Madhu Sharma