

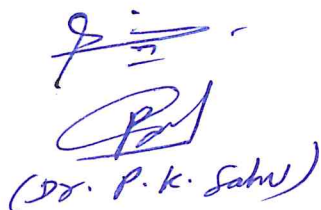
# FOUR YEAR UNDER GRADUATE PROGRAM(2024-28)

DEPARTMENT OF MATHEMATICS

COURSE CURRICULUM -2024-25

<b>Part A: Introduction</b>			
<b>Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)</b>		SEMESTER-II/IV/V/VI	Session: 2024-2025
1	Course Code	<b>MASEC-1</b>	
2	Course Title	<b>Introduction to LATEX</b>	
3	Course Type	Skill Enhancement Course (SEC)	
4	Pre-requisite (if, any)	Basic understanding of document editing, familiarity with markup languages, and willingness to learn LaTeX syntax and formatting conventions.	
5	Course Learning Outcome (CLO)	<b>This Course will enable the students to:</b> <ul style="list-style-type: none"> <li>➤ Make different Alignments in a document and an Application for a job.</li> <li>➤ Generate Bio-Data, and Table Structures.</li> <li>➤ Create Mathematical Statements using LaTeX.</li> <li>➤ Prepare Articles and Inserting Pictures.</li> <li>➤ Prepare Question paper and PowerPoint presentation in LaTeX format.</li> </ul>	
6	Credit Value	2 Credits (1C + 1C)	<i>Credit = 15 Hours – Theoretical learning and = 30 Hours Laboratory or Field learning/Training</i>
7	Total Marks	Max. Marks: 50	Min Passing Marks: 20

<b>Part B: Content of the Course</b>		
Total No. of Teaching-learning Periods:		
Theory – 15 Periods (15 Hrs) and Lab. or Field learning/Training 30 Periods (30 Hours)		
Unit	Topics (Course contents)	No. of Period
I	<b>Basics:</b> Introduction to LaTeX, Text, Symbols and Commands, Document layout and organization, displayed text. Mathematical formulas, Graphics inclusion and color. Floating tables and figures, User customizations. <b>Beyond the Basics:</b> Document management, Postscript and PDF, Beamer, Frames, Bibliographic data bases and BiBTeX, Presentation material.	15
II	<b>Practicals Based on-</b> <b>1.Introduction to TeX and LaTeX-</b> Creating and typesetting a simple LaTeX document, <b>2.Adding basic information to documents-</b> Environments, Footnotes, Sectioning, Displayed material. <b>3.Accents and symbols-</b> Mathematical typesetting (elementary and advanced): Subscript/ Superscript, Fractions, Roots, Ellipsis,	30

  
 (Dr. P. K. Sahu)



	<p><b>4. Mathematical symbols-</b> Arrays, Delimiters, Multiline formulas,</p> <p><b>5. Putting one thing above another-</b> Spacing and changing style in math mode.</p> <p><b>6. Pictures and graphics in LaTeX-</b> Simple pictures using PSTricks, Plotting of functions.</p> <p><b>7. Beamer, Frames-</b> Setting up beamer document, Enhancing beamer presentation</p> <p><b>8. Bibliographic data bases and BiBTeX-</b> Create and manage bibliographic references using BiBTeX</p>	
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### Part C - Learning Resource

#### Text Books, Reference Books, Other Resources

##### Text Books Recommended-

1. Murugan Swaminathan, Latex For Beginners, Publisher: Notion Press

##### Reference Books Recommended

2. Dilip Datta, Latex in 24 Hours A Practical Guide for Scientific Writing, Springer

##### E-resources:

Free Online LaTeX Editor- <https://www.overleaf.com/>

### PART -D: Assessment and Evaluation

Suggested Continuous Evaluation Methods:

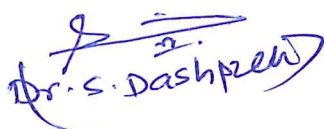
Maximum Marks: 50 Marks

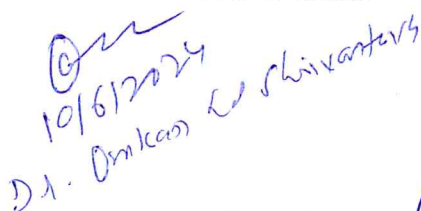
Continuous Internal Assessment (CIA): 15 Marks

End Semester Exam (ESE): 35 Marks

Continuous Internal Assessment (CIA): (By Course Coordinator)	Internal Test / Quiz-(2): 10 & 10 Assignment/Seminar + Attendance - 05 Total Marks - 15	Better marks out of the two Test / Quiz + obtained marks in Assignment shall be considered against 15 Marks
End Semester Exam (ESE):	Laboratory / Field Skill Performance: On spot Assessment A. Performed the Task based on learned skill - 20 Marks B. Spotting based on tools (written) - 10 Marks C. Viva-voce (based on principle/technology) - 05 Marks	Managed by Coordinator as per skilling

Name and signature of convener & members of CBOS-

  
Dr. S. Dashpreet

  
10/6/2024  
Dr. Omkar Chivankar

  
Dr. R. N. K. K.

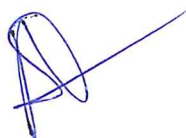
  
Dr. A. K.

  
Dr. P. K. Sahu

  
Dr. S. K.

  
Dr. M. K.

  
Dr. M. K.

  
Dr. A. K.

  
Dr. A. K.