FOUR YEAR UNDER GRADUATE PROGRAM(2024-28)

DEPARTMENT OF MATHEMATICS COURSE CURRICULUM -2024-25

Part A: Introduction							
Program: Bachelor in Science (Certificate/Diploma/Degree/Honors)		SEMESTER-II/	IV/V/VI	Session: 2024-2025			
1	Course Code	MASEC-1					
2	Course Title	Introduction to LATEX					
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)	This Course will enable the students to: Make different Alignments in a document and an Application for a job. Generate Bio-Data, and Table Structures. Create Mathematical Statements using LaTex. Prepare Articles and Inserting Pictures. Prepare Question paper and PowerPoint presentation in LaTeX format.					
6	Credit Value	2 Credits (1C + 1C)		it = 15 Hours – Theoretical learning and Hours Laboratory or Field			
7	Total Marks	Max. Marks:	50	learning/Training Min Passing Marks: 20			

Part]	B: Content of the Course	
Theory	Total No. of Teaching—learning Periods: — 15 Periods (15 Hrs) and Lab. or Field learning/Training 30 Periods (30 Hours)	
UIII	Topics (Course contents)	No. of Period
I	Basics: 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. Beyond the Basics: Document management, Postscript and PDF, Beamer, Frames, Bibliographic data bases and BiBTeX, Presentation material.	15
II	Practicals Based on- 1.Introduction to TeX and LaTeX- Creating and typesetting a simple LaTeX document, 2.Adding basic information to documents- Environments, Footnotes, Sectioning, Displayed material. 3.Accents and symbols- Mathematical typesetting (elementary and advanced): Subscript/ Superscript, Fractions, Roots, Ellipsis,	30

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

Part C - Learning Resource							
Text Books, Reference Books, Other Personness							
rext 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							
LifeSources.							
Free Online LaTeX Editor- https://www.overleaf.com/							
PART -D: Assessment and Evaluation							
Suggested Continu	ious Evaluation Methods:						
Maximum Marks:	50 Marks						
Continuous Interna	Continuous Internal Assessment (CIA): 15 Marks						
End Semester Example 1	End Semester Exam (ESE): 35 Marks						
Continuous	Internal Test / Quiz-(2): 10 & 10	D-44 1 21					
Internal	Assignment/Seminar +Attendance - 05	Better marks out of the					
Assessment	Total Marks - 15	two Test / Quiz + obtained marks in					
(CIA):	13	Assignment shall be					
(By Course		considered against 15					
Coordinator)		Marks					
End Semester	Laboratory / Field Skill Performance: On spot	Managed by Coordinator					
Exam (ESE):	Assessment	as per skilling					
	A. Performed the Task based on learned skill -	as per skining					
	20 Marks						
	B. Spotting based on tools (written)						
	- 10 Marks						
	C. Viva-voce (based on principle/technology) -						
	05 Marks						

Name and signature of convener & members of CBOS-

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