G. VENKATASWAMY NAIDU COLLEGE (AUTONOMOUS), KOVILPATTI – 628 502.

PG DEGREE END SEMESTER EXAMINATIONS - APRIL 2025.
(For those admitted in June 2023 and later)

PROGRAMME AND BRANCH: M.Sc., MATHEMATICS

SEM	CATEGORY	COMPONENT	COURSE CODE	COURSE TITLE
II	PART - III	SEC - 1	P23MA2SE1	MATHEMATICAL DOCUMENTATION USING LATEX

Date & Session :06.05.2025/AN   **Time : 3 hours**   **Maximum: 75 Marks**

Course Outcome	Bloom's K-level	Q. No.	SECTION – A (10 X 1 = 10 Marks) Answer ALL Questions.
CO1	K1	1.	LaTeX is based on which typesetting system? a) Microsoft Word b) OpenOffice c) TEX d) Mark down
CO1	K2	2.	The command \documentclass{article} is used to a) Set the document's title b) Define the document structure c) Create a bibliography d) Define a table
CO2	K1	3.	Which command is used to start an environment? a) \begin{} b) \start{} c) \ env{} d) \define{}
CO2	K2	4.	What is the function of the \textbf{} command? a) a) Italicize text b) Underline text c) Make text bold d) Increase font size
CO3	K1	5.	How do you begin a new section in LaTeX? a) \newsection{} b) \section{} c) \startsection{} d) \begin{section}{}
CO3	K2	6.	Which command is used to format theorem-like statements in LaTeX? a) \theoremstyle{} b)\begin{theorem}...\end{theorem} c) \theorem{} d) \texttheorem{}
CO4	K1	7.	The command \parbox{} is used to create a) A paragraph with a fixed width b) A new page c) A boxed figure d) A header
CO4	K2	8.	Which command is used to create a multi-column entry in a table? a) \multicolumn{} b) \column{} c) \multirow{} d) \tablecell{}
CO5	K1	9.	Which command is used to begin a LaTeX letter? a) \begin{document} b) \begin{letter}{recipient} c) \letter{} d) \startletter{}
CO5	K2	10.	The \author{} command is used to a) Define the author of a document b) Set the title of an article c) Add a footnote d) Insert a bibliography
Course Outcome	Bloom's K-level	Q. No.	SECTION – B (5 X 5 = 25 Marks) Answer ALL Questions choosing either (a) or (b)
CO1	K2	11a.	What is LATEX ? and explain it.
			(OR)
CO1	K2	11b.	Describe briefly the TEX fonts using LATEX and give an example.

Course Outcome	Bloom's K-level	Q. No	
CO2	K2	12a.	Explain the significance of environments in LaTeX with an example.
			(OR)
CO2	K2	12b.	Discuss about the concept of Line breaking.
CO3	K3	13a.	What is a document class in LaTeX? List some common document classes.
			(OR)
			What are the main idea behind the page format using LATEX.
CO3	K3	13b.	
CO4	K3	14a.	What is boxes and write a notes on LR boxes.
			(OR)
CO4	K3	14b.	How can tables be constructed in LaTeX? Explain with an example.
CO5	K4	15a.	Analyze the key steps involves in setting a question paper using LATEX.
			(OR)
CO5	K4	15b.	Examine the process of writing an article using LATEX.

Course Outcome	Bloom's K-level	Q. No	**SECTION – C (5 X 8 = 40 Marks)** **Answer ALL Questions choosing either (a) or (b)**
CO1	K4	16a.	Examine the following concepts. i) Typographical markup ii) Logical markup
			(OR)
CO1	K4	16b.	Analyze the concept of extending LATEX with packages.
CO2	K5	17a.	Discuss their significance of Page breaking.
			(OR)
CO2	K5	17b.	Classify the concepts of lengths in LATEX.
CO3	K5	18a.	Classify the different parts of a LATEX documents and their functions.
			(OR)
CO3	K5	18b.	How do lists work in LATEX? Provide an example of an enumerate, itemize and nested list.
CO4	K5	19a.	Discuss the various types of boxes in LaTeX and their applications with examples.
			(OR)
CO4	K5	19b.	Explain table style parameters in LaTeX and how they can be modified.
CO5	K6	20a.	Prepare the letter writing process using LATEX and give an example
			(OR)
CO5	K6	20b.	Create a article with following arguments "Text a title heading with the title 'MATH in Daily Life' your name as author and your address together with a date entry in the form place date"