

Semester Lecture Plan

Name of the college: Government college of Arts Science and Commerce ,Sankhali						
Name of Faculty: Ms. Nirmiti Shankar Naik		Subject: Mathematics				
Paper code: MAT – 241 (Theory)		Program/Course: SY B.Sc.			Division:	
Academic year: 2024- 2025		Semester:III			Total Lectures: 60	
Course Objectives: To make students competent in using LaTeX for typesetting any technical document and making impressive presentations.						
Expected course Outcome: On successfully completing the course a student will have knowledge about: <ol style="list-style-type: none"> 1. Create and typeset a LaTeX document using different document classes. 2. Build documents containing Mathematics. 3. Experiment with pictures and graphics in LaTeX. 4. Prepare impressive beamer presentations and typeset question papers using the exam class 						
Student learning outcome: The student will be able to, <ol style="list-style-type: none"> 1. Create and typeset a LaTeX document using. 2. Analyze and differentiate various document classes like articles, book, report etc. 3. Build documents containing Mathematics. 4. Experiment with pictures and graphics in LaTeX. 5. Prepare impressive beamer presentations and typeset question papers using the exam class 						
Month	Lectures From: To:	No. of lectu	Topic, Subtopic to be covered	Exercises/ assignment	ICT Tools	Reference books

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July	15/07/2024	20/07/2024	1	Introduction to TeX and LaTeX; Document classes; Typesetting a simple document; Adding basic information to a document.		Smart board, Computer, Software	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006
July	22/07/2024	27/07/2024	1	Adding watermark to a document; Fonts and Sizes; Sectioning command and alignment.		Smart board, Computer	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006
July - August	29/07/2024	3/08/2024	1	list and Enumeration; Quotations; Environments; Footnotes.		Smart board, Software	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006
August	5/08/2024	10/08/2024	1	Typesetting tables with multiple columns and tabular environment ; boxed text,Minipage.		Smart board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second

							Edition, Pearson, 2006
August	12/08/2024	17/08/2024	1	Accents and symbols; Mathematical formula typesetting (elementary and advanced).		Smart board, Software	E. Krishnan : LaTeX Tutorials – A Primer, Indian TeX Users Group, 2003.
August	19/08/2024	24/08/2024	2	Subscript/Superscript, Fractions, Roots, Ellipsis, greek letters, Mathematical Symbols, Special characters, Arrays, Delimiters		Smart board, Software	L. Lamport : A Documentation Preparation System LATEX User’s Guide and Reference Manual, Second Edition, Pearson, 2006
August	26/08/2024	31/08/2024	1	Multiline formulas, Matrices, Spacing and changing style in math mode.		Smart board, Chalkboard	E. Krishnan : LaTeX Tutorials – A Primer, Indian TeX Users Group, 2003.
September	2/09/2024	5/09/2024	1	Boxed equations; Creating mathematical environments, \newtheorem command		Smart board, Chalk board	E. Krishnan : LaTeX Tutorials – A Primer, Indian TeX Users Group, 2003.

September	16/09/2024	21/09/2024	1	. Cross Referencing, Index and Bibliography: Cross referencing figures, tables, sections, equations, etc.		Smart board, Chalk board	E. Krishnan : LaTeX Tutorials – A Primer, Indian TeX Users Group, 2003; L. Lamport : A Documentation Preparation System LATEX User’s Guide and Reference Manual, Second Edition, Pearson, 2006
September	23/09/2024	28/09/2024	2	Table of contents; Bibliography using NATBIB; Bibliographic styles; BIBTeX and Database creation.		Smart board, Software	L. Lamport : A Documentation Preparation System LATEX User’s Guide and Reference Manual, Second Edition, Pearson, 2006
September - October	30/09/2024	5/10/2024	1	Graphics and Beamer Presentation in LaTeX: Graphics in LaTeX		Smart board	L. Lamport : A Documentation Preparation System LATEX User’s Guide and Reference Manual, Second Edition, Pearson, 2006

October	7/10/2024	12/10/2024	1	Simple pictures using PSTricks		Smart board, Chalk board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006
October	14/10/2024	19/10/2024	1	Beamer presentation		Smart board, Chalk board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006

*** Assessment Rubrics**

Component	Max Marks
ISA 1	5
ISA 2	5
Project	-
Semester End Exam	20