

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa		
Name of Faculty: Vishal Vinayak Gawas	Subject: Mathematics	
Paper code: MAT-241 Technical Typesetting Using LaTeX	Program: B.Sc.	Division: -
Academic year: 2025-26	Semester: V	Total Lectures: 60
Course Objectives:		
1. To make students competent in using LaTeX for typesetting any technical document and making impressive presentations.		
Expected Course Outcome:		
1) Recollect the basic definitions and theorems in Group Theory		
2) Explain the various proofs and concepts in Group Theory.		
3) Explain the various proofs and concepts in Group Theory.		
4) Solve problems using the concepts learnt in the course.		
Student Learning Outcome: Student will be able to		
1) Recollect the basic definitions and theorems in Group Theory and explain the various proofs and concepts involved		
2) Apply the concepts of Group Theory to explain proofs and solve problems effectively.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
June	20/06/2025	21/06/2025	1	Introduction to TeX and LaTeX; Document classes; Typesetting a simple document; Adding basic information to a document; Adding watermark to a document			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	23/06/2025	28/06/2025	1	Fonts and Sizes; Sectioning command and alignment		Smart Board PDF	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
July	30/06/2025	05/07/2025	1	List and Enumeration; Quotations; Environments; Footnotes		Smart Board PDF	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	07/07/2025	12/07/2025	1	Typesetting tables with multiple columns and tabular environment ; boxed text,Minipage.			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference

							Manual, Second Edition, Pearson, 2006.
	14/07/2025	19/07/2025	1	Accents and symbols; Mathematical formula typesetting (elementary and advanced)		Data projector	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	21/07/2025	26/07/2025	1	Subscript/Superscript, Fractions, Roots, Ellipsis, greek letters			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
July August	28/07/2025	02/08/2025	1	Mathematical Symbols, Special characters, Arrays, Delimiters, Multiline formulas, Matrices, Spacing and changing style in math mode			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
August	04/08/2025	09/08/2025	1	Boxed equations; Creating mathematical environments, \newtheorem command.		Smart Board	L. Lamport : A Documentation Preparation System LATEX User's Guide

							and Reference Manual, Second Edition, Pearson, 2006.
	11/08/2025	16/08/2025	1 IndependenceDay	Boxed equations; Creating mathematical environments, \newtheorem command.			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	18/08/2025	23/08/2025	1	Cross Referencing, Index and Bibliography: Cross referencing figures, tables		Smart Board PDF	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	25/08/2025	30/08/2025	0 Chaturthi Break 26/08/25 To 01/09/25				L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.

September	02/09/2025	06/09/2025	3	Sections, equations, etc; Table of contents		Smart Board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	08/09/2025	13/09/2025	1	Bibliography using NATBIB; Bibliographic styles;			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	15/09/2025	20/09/2025	1	BIBTeX and Database creation		Smart Board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	22/09/2025	27/09/2025	1	Graphics in LaTeX		Smart Board	L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.

September October	29/09/2025	04/10/2025	1 Gandhi Jayanti / Dussehra	Simple pictures using PSTricks;			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
October	06/10/2025	11/10/2025	1	Beamer presentation			L. Lamport : A Documentation Preparation System LATEX User's Guide and Reference Manual, Second Edition, Pearson, 2006.
	13/10/2025	18/10/2025	1	Beamer presentation			

* Assessment Rubrics

Component	Max Marks
ISA 1	10
ISA 2	10
Practical	Nil
Project	Nil
Semester End Exam	80