

Lecture Plan		
Name of the College: Government College of Arts, Science and Commerce, Sanquelim-Goa		
Name of Faculty: Rohit R. Redkar	Subject: Mathematics	
Paper code: MAT-241 Technical Typesetting Using Latex	Program: B.Sc.	Division: -
Academic year: 2025-26	Semester: III	Total Lectures: 60
Course Objectives: To make students competent in using LaTeX for typesetting any technical document and making impressive presentations.		
1) To Create and typeset a LaTeX document. 2) To Build documents containing Mathematics. 3) To experiment with pictures and graphics in LaTeX. 4) To Prepare impressive beamer presentations and typeset question papers using the exam class.		
Student Learning Outcome: Student will be able to 1) Create and typeset a LaTeX document. 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.		

Month	Lecture From	Lecture To	No. of lectures allotted	Topic, Subtopic to be covered	Exercise/ Assignment	ICT Tools	Reference books
July	30/06/2025	05/07/2025	4	Basics of Latex, TexStudio, MikTex, Overleaf, Typing a basic document in LaTeX – trying out the effect of spaces, line breaks, empty lines		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
	07/07/2025	12/07/2025	4	Writing special characters in text, adjusting fonts, shapes and styles, adding watermark, sectioning and paragraphs.		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
	14/07/2025	19/07/2025	4	Exploring simple documents – customizing margins, page numbers, quotations, horizontal lines, using vspace and hspace, flushleft/flushright commands, enumeration and itemize environments		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
	21/07/2025	26/07/2025	4	Understanding the various document classes such as article/report/thesis/book and experimenting with each class to understand the output.		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
July August	28/07/2025	02/08/2025	4	Customizing tables, minipage environment, inserting graphics		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
August	04/08/2025	09/08/2025	4	Typesetting accents and Greek symbols, Basic mathematical		Smart Board	LATEX Tutorials A PRIMER Indian TEX

			typesetting, Working with Subscript/Superscript, Fractions, Roots, Ellipsis, Mathematical operators, Special characters, Arrays, Delimiters.			Users Group
	11/08/2025	16/08/2025	4 IndependenceDay	Using equation environment, breaking/appropriately writing long equations, typing equations with cases, spaces in math mode, text in math mode	ISA	Smart Board LATEX Tutorials A PRIMER Indian TEX Users Group
	18/08/2025	23/08/2025	4	Typing of matrices, infinite series, continued fractions, and boxed equations, and the like.		Smart Board LATEX Tutorials A PRIMER Indian TEX Users Group
	25/08/2025	30/08/2025	0 Chaturthi Break 26/08/25 To 01/09/25			
September	02/09/2025	06/09/2025	4	Using the theorem environment to typeset definitions, remarks, lemmas, theorems, corollaries, etc, Cross referencing – using tag commands, hyperref environment, adding hyperlinks to text.		Smart Board LATEX Tutorials A PRIMER Indian TEX Users Group
	08/09/2025	13/09/2025	4	Creating bibliographic database and exploring various bibliographic environments to create bibliography.		Smart Board LATEX Tutorials A PRIMER Indian TEX Users Group

				Generating the Table of Contents.			
	15/09/2025	20/09/2025	4	Making presentations using Beamer in LaTeX.		Smart Board	LATEX Tutorials A PRIMER Indian TEX Users Group
	22/09/2025	27/09/2025	4	Making use of the exam class to prepare question papers in LaTeX.		Smart Board	Using the exam document class Philip Hirschhorn
September October	29/09/2025	04/10/2025	0 Gandhi Jayanti / Dussehra				
October	06/10/2025	11/10/2025	4	Revision	ISA		
	13/10/2025	18/10/2025	4	Practical Exam			

*** Assessment Rubrics**

Component	Max Marks
ISA 1	5
ISA 2	5
Practical	40
Project	Nil
Semester End Exam	Nil