



CourseTitle: LaTeX for Professional Publications Total Hours : 30 Hours		Department:Mathematics Credit:2
CoursePre-requisites/Co-requisites		Basic typing knowledge
Objectives:		<ul style="list-style-type: none"> • To understand LaTeX, a document preparation system for high - quality typesetting. • To understand features of LaTeX. • To have hands on experience to become a user of LaTeX
ExpectedLearningOutcome:		<p>On completion of the course, students will have the ability to</p> <ul style="list-style-type: none"> • Typesetting of complex mathematical formulae using LaTeX. • Use tabular and array environments within LaTeX. • Use various methods to either create or import graphics into a LaTeX document. • Typesetting of journal articles, technical reports, thesis, books, and slide presentations • Automatic generation of table of contents, bibliographies and indexes. • Use the beamer package to create presentations.
Module:1	Beginning typesetting using LaTeX.	5 Hours
Introduction-Resources-Starting a LATEX Document-Sections and Subsections-Typesetting Considerations-Single Quotes -Double Quotes -Hyphenation and Dashes -Special Characters - Emphasising Text .		
Module:2	Mathematical Type setting	6 Hours
Standard Latex mode-amsmath package-Tex and math-other math related packages-Math fonts-special symbols-Example—Fonts selection		
Module:3	Tables and Figures	4 Hours
Table Insertion-Figure Insertion		
Module:4	Bibliography,Citations and Indexing	4Hours
What is Bibliography-Different Bibliography methods- Citations		
Module:5	Article and Thesis Preparation	5 Hours
List of Authors-Title and Abstract on separate pages-Article in multiple columns- Template of a thesis		
Module:6	Ppresentation using Beamer	6 Hours
Introduction to creating slides-adding frames- Blocks-Types of themes-Presentation Themes-Colour and Font themes-Inner and pouter themes-Title page-pstricks codes -matrices		
TextBooks: 1.Latex in 24 Hours (A practical guide for Scientific writing)-Springer DilipDatta, Department of Mechanical Engineering,TezpurUniversityTezpur, Assam,India		

References: 1.Learning Latex(Free E-Book)

2.LATEX programming (<https://www.latex-project.org/>)

3.Writing Scientific Documents Using LATEX -Andrew J. Benniesto

Mode of Evaluation	Practice Tests-40%, Continuous Assessment Tests- 60%, Assessment Test 1-20% Assessment Test 2- 20% Assessment Test 3- 20%
Course Coordinator	Dr .A.Sudha
Course Instructor	Dr.P.Shanthi