



**WAVOO WAJEEHA WOMEN'S COLLEGE  
OF ARTS & SCIENCE - KAYALPATNAM**

(Affiliated to Manonmanium Sundaranar University, Tirunelveli)

Run by : Wavoo SAR Educational Trust

(minority institution)



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

<b>References:</b> 1.Learning Latex(Free E-Book) 2.LATEX programming ( <a href="https://www.latex-project.org/">https://www.latex-project.org/</a> ) 3.Writing Scientific Documents Using LATEX -Andrew J. Benniesto	
<b>Mode of Evaluation</b>	Practice Tests-40%, Continuous Assessment Tests-60%, Assessment Test1-20% Assessment Test2- 20% Assessment Test3- 20%
<b>Course Coordinator</b>	Dr .A.Sudha
<b>Course Instructor</b>	Dr.P.Shanthi