Technical Writin	Semester	4	
Course Code	BCSL456D	CIE Marks	50
Teaching Hours/Week (L: T:P: S)	0:0:2:0	SEE Marks	50
Credits	01	Exam Hours	02
Examination type (SEE)	Practical		

Course objectives:

- To introduce the basic syntax and semantics of the LaTeX scripting language
- To understand the presentation of tables and figures in the document
- To illustrate the LaTeX syntax to represent the theorems and mathematical equations
- To make use of the libraries (Tikz, algorithm) to design the diagram and algorithms in the document

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Sl.NO	Experiments							
1	Develop a LaTeX script to create a simple document that consists of 2 sections [Section1, Section2], and a paragraph with dummy text in each section. And also include header [title of document] and footer [institute name, page number] in the document.							
2	Develop a LaTeX script to create a document that displays the sample Abstract/Summary							
3	Develop a LaTeX script to create a simple title page of the VTU project Report [Use suitable Logos and text formatting]							
4	Develop a LaTeX script to create the Certificate Page of the Report [Use suitable commands to leave the blank spaces for user entry]							
5	Develop a LaTeX script to create a document that contains the following table with proper labels.							
		S.No	USN	Student Name		Marks		
					Subject1	Subject2	Subject3	
		1	4XX22XX001	Name 1	89	60	90	
		2	4XX22XX002	Name 2	78	45	98	
		3	4XX22XX003	Name 3	67	55	59	1
6	Develop a LaTeX script to include the side-by-side graphics/pictures/figures in the document by using the subgraph concept							
7	Develop a LaTeX script to create a document that consists of the following two mathematical equations							
	:		$-b \pm \sqrt{b^2 - 4ac}$ $2a$ $\pm \sqrt{2^2 - 4*(1)*(-1)}$ $2*1$ $\pm \sqrt{4+32}$ 2	_	$t = \sum_{\pi \in C_t} \operatorname{sgn}$ $= \sum_{\tau \in C_{\sigma t}} \operatorname{sgn}$ $= A_{\sigma t} \varphi_{\sigma}^{\lambda}$	$(\pi)\varphi_{\sigma}^{\lambda}\varphi_{\pi}^{\lambda}$ $\ln(\sigma^{-1}\tau\sigma)\varphi_{\sigma}^{\lambda}\varphi_{\sigma}^{\lambda}$	$arphi_{\sigma^{-1} au\sigma}^{\lambda}$	
	1							

8	Develop a LaTeX script to demonstrate the presentation of Numbered theorems, definitions, corollaries, and lemmas in the document
9	Develop a LaTeX script to create a document that consists of two paragraphs with a minimum of 10 citations in it and display the reference in the section
10	Develop a LaTeX script to design a simple tree diagram or hierarchical structure in the document with appropriate labels using the Tikz library
11	Develop a LaTeX script to present an algorithm in the document using algorithm/algorithmic/algorithm2e library
12	Develop a LaTeX script to create a simple report and article by using suitable commands and formats of user choice.

Course outcomes (Course Skill Set):

At the end of the course, the student will be able to:

- Apply basic LaTeX command to develop simple document
- Develop LaTeX script to present the tables and figures in the document
- Illustrate LaTeX script to present theorems and mathematical equations in the document
- Develop programs to generate the complete report with citations and a bibliography
- Illustrate the use of Tikz and algorithm libraries to design graphics and algorithms in the document