Programme: M. Sc. (Physics)

Course Code: PHS-629

Number of Credits: 1T + 1P

Effective from AY: 2023-24

Title of the Course: Documentation using Latex

Prerequisites for	Nil	
Course Objectives:	This course provides an introduction to technical	
	writing with Latex.	
<u>Content:</u>	Introduction	5 hours
	Introduction and Installation of the software LaTeX.	
	Understanding Latex compliation.	6 hours
	Nicoure 1. Basic Syntax of Latex Writing equations Matrix Tables	6 nours
	Module 2.	7 hours
	Page Layout – Titles, Abstract, Chapters, Sections,	, nours
	References, Equation references, citation. List-making	
	environments, Table of contents, generating new	
	commands, Figure handling, numbering, List of figures,	
	List of tables, Generating index.	C has as
	Niodule 3. Rackagos: Geometry, Hyperrof, amsmath, amssymb	6 nours
	algorithms, algorithmic graphic, color, tiles listing	
	Model 4.	3 hours
	Classes: article, book, report, beamer, slides.	
	Module 5.	18 hours
	Applications to:	
	Writing Resume	
	Writing question paper	
	Writing articles/ research papers	
	Presentation using beamer.	
Pedagogy:	lectures/ tutorials/ seminars/ assignments/	
<u> </u>	presentations/ etc. or a combination of some of these.	
References/Reading	1. Dilip Datta, LaTeX in 24 Hours: A Practical Guide for	
<u>s:</u>	Scientific Writing, Springer, (2017).	
	2. Leslie Lamport, LaTeX: A Document Preparation	
	System, Addison-Wesley Professional (1994).	
	3. Frank Mittelbach, Michel Goossens, Johannes Braams,	
	David Carlisle and Chris Rowley, The LaTeX	
	Woslov Professional 2004	
	Wesley Frolessional, 2004	
Course Outcomes:	Student will be able to	
	1. Create basic types of LaTeX documents (article,	
	report, letter, book).	
	2. Format words, lines, and paragraphs, design pages,	
	create lists, tables, references, and figures in LaTeX.	

3. Create tables, typeset mathematical equations,
import graphics, etc.
4. Develop large documents like books and thesis and
professional presentations using LaTeX.