

Sree Narayana Mangalam College Maliankara

(Affiliated to Mahatma Gandhi University, Kottayam)



DEPARTMENT OF STATISTICS

Syllabus of Certificate course “Document preparation using Latex”

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Certificate Course on “Document preparation using Latex”

Objectives of the Course

- Introducing LaTeX to students
- Teaching different fundamentals of LaTeX syntax, document structure and formatting techniques, including text styling, mathematical typesetting, table creation, and incorporating graphics
- Teach to prepare different types of documents using LaTeX

Course Overview

It provides a comprehensive introduction to LaTeX, a powerful typesetting system widely used for creating documents in academia, research and publishing. Students will learn the fundamentals of LaTeX syntax, document structure and formatting techniques, including text styling, mathematical typesetting, table creation, and incorporating graphics and also creating presentations. By the end of the course, participants will have the skills and knowledge to confidently create and customize documents for a range of purposes using LaTeX.

Duration of the course: 30 Hours (18 Hours theory+12 hours practical)

Module 1: Preparation of input file and running Latex (5 hours)

Sentences and paragraphs, the document, Sectioning, Displayed material, declarations, running LaTeX

Module 2: Typesetting (15 hours)

Changing the type style, symbols for other languages, mathematical formulas, mathematical symbols, arrays, delimiters, multiline formulas, Over and underlining, accents and stacking symbols, defining commands and defining environment, figures and tables, marginal notes, tabbing environment and tabular environment

Module 3: Other document classes (20 hours)

Books, slides, letters

Evaluation Process

Two Assignments: 15 Points each

One Test Paper: 20 Points

Total Points : 50

Minimum points to be secured for course competition is 25

Reference books:

1. L. Lamport, LaTeX: A Document Preparation System, 2nd Edition, Addison-Wesley, 1994
2. F. Mittelback, M. Goosens et.al., The LaTeX Companion: 2nd Edition, Addison-Wesley, 2004