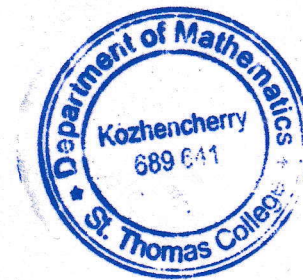


St Thomas College, Kozhencherry
Online Certificate Course in *Typesetting in LaTeX*



Name of the Department: Department of Mathematics

Course Coordinator: Ms Priya Mathews

Duration of the Course: 30 hours

Course Objectives:

- 1. To provide a good working knowledge on how to install LaTeX tools.**
- 2. To introduce LaTeX as an alternative document preparation system.**
- 3. To expose participants to the basics of document preparation using LaTeX.**

Course Outcomes:

Students will be able to perform the following when they have finished the course:

1. Create a LaTeX document to generate a scientific article and project report.
2. Adding images and tables to a LaTeX document.
3. Making presentations and conference proceedings.
4. Specify document class and layout choices in the prologue of the LaTeX file.
5. Make use of BibTeX to create a bibliography and to maintain bibliographic data for a specific text.

Course Outline

Module 1: (7 hours)

Basics of LaTeX - History of LaTeX - Types of documents - Simple formatting of text, alignments, fonts and spaces - Generation of content page – Introducing various environments - Preparation of table - Handling of graphics

Module 2: (7 hours)

Basics of typesetting Mathematical expressions - Preparation of matrices, tables of mathematical contents using arrays, various types of dots, symbols - Preparation of theorems and their customisation

Module 3: (6 hours)

Cross-reference system in LaTeX - Modification of existing commands and environments - Preparation of a presentation using beamer class – Handling various types of errors - Extensions of LaTeX and more features

Module-4

Live Hands-On Training (10 hours)

Mode of Evaluation:

Assignments, Online MCQ-based Examination

Recommended Readings:

- 1) LATEX Tutorials - A PRIMER, <https://www.tug.org/twg/mactex/tutorials/>
- 2) A simple guide to TEX - Step by Step, <https://latex-tutorial.com/tutorials/>
- 3) <https://www.overleaf.com/>
- 4) LATEX for Beginners, <http://www.docs.is.ed.ac.uk/skills/documents/3722/3722-2014.pdf>
- 5) <https://tex.stackexchange.com/>

P. Biju

