# DEPARTMENT OF PHYSICS, SACRED HEART COLLEGE, THEVARA

## INTRODUCTION TO LATEX

Value Added Course, Code: 16PHYVAC01

| | | | |
|---|---|---|---|
| **Instructor:** | Mathew George | **Time:** | 30 hours |
| **Email:** | mathew.george@shcollege.ac.in | **Place:** | Physics Seminar Hall |

**Prerequisites:** A basic understanding on the usage of computers.

**Objectives:** Many of our students are opting for jobs in software / finance industry. This course will enable such students to be proficient in preparing documents easily. In addition, the skills mastered are equally attractive for students opting for higher studies, as they will be come handy during their dissertation work.

**Course Outcomes:**

- Be able to setup a working LATEX installation on a computer,
- Be proficient in generating documentation typeset with LATEX.

**Syllabus:**

1. Module-1 Basic ideas and setting up (10 hours)
   An introduction LATEX, Comparison with MS Word, demo of LaTeX usage / Installation and setting up of LATEX/ Class files - *.tex* files, structure.

2. Module-2 Typesetting an article (10 hours)
   Author, date, address, sections, subsections / formatting text / figure environment / mathematical symbols etc. / equation environment / list, enumerate / tables / quotation and verse.

3. Module-3 Reports, CV and Beamer (10 hours)
   BIBTEX/ typesetting report / typesetting CV / making presentations with Beamer.

**Reference:**

1. Tobias Oetiker, Hubert Partl, Irene Hyna and Elisabeth Schlegl, *The Not So Short Introduction to LATEX*, (free E-book ).

2. Leslie Lamport *LATEX A Document Preparation System*, Addison Wesley Publishing Company.

**Grading Policy:** Based on completion of assignments (80%), Viva (20%).

Dr. Johnson X Palackappillil
Principal
Sacred Heart College (Autonomous)
Th____ Kochi 682 013