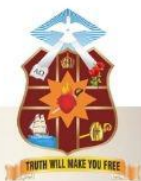


DEVA MATHA COLLEGE KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam



SYLLABUS
OF
ADD-ON COURSE
IN
Basic Latex
Academic Year: 2022-23



DEVA MATHA COLLEGE KURAVILANGAD

DEPARTMENT OF SELF FINANCE PHYSICS PG

Add on Courses offered for Students : 2022-2023

1. Basic LATEX

DMCK/ SFPHY/AD 29/2022

2. Physics Simulations in C++

DMCK/ SFPHY/AD 30/2022



Department Coordinator: Ms. Roselin George

Title: Basic Latex

Instructional Hours: 30Hr

Duration: 1 Month

Mode of Instruction: Online

Intake Capacity: 30

Eligibility: B.Sc. Physics

DEVA MATHA COLLEGE KURAVILANGAD
ADD-ON COURSE FOR THE AY 2022-23

Course Objectives

After the completion of the course the students will be able to

- Identify and understand LATEX as a document preparation system
- Create and design documents in Latex and presentations in Beamer
- Handle different types of documents
- Organize documents into different sections, subsections, etc..
- Handle complex mathematical formulae in document
- Expertise in Cross-referencing, bibliography, and Indexing
- Create presentations in beamer
- Make posters using LATEX

1 Module 1- Introduction to LATEX (10Hrs)

Introduction what is LATEX, history of LATEX, benefits, virtues of open source, separation of form and content, portability, comparing LATEX with other word processor software, installation, introduction to over-leaf ,Document Structure Document class, page style, page numbering, formatting lengths, parts of a document, creating title - sections – labeling - table of contents, dividing the document. Typesetting text Font effects coloured text, font sizes, lists, special characters. Practical sessions in LaTeX

2 Module 2- LATEX for Education and Research (10Hrs)

Introduction Outline for a project report, basic structure of a scientific paper, starting a document in LATEX. Macros Packages, math mode, Latin abbreviations, references for figures tables- equations- and sections, comments. Document class Book, report, article, thesis, question papers, syllabus. Organization of LATEX files Figures in separate folders, figures : resolution, position, caption, multiple Images, videos, tables, algorithms. Practical sessions in LaTeX

3. Module 3- LATEX for Communication and Presentation (10Hrs)

Introduction Methods of communication and presentations: letters, oral and poster presentations, advantages of LATEX, Beamer Templates, slide setup, packages, themes, Practical sessions in LaTeX.

Reference:

- LATEX: A Document Preparation System : User's Guide and Reference Manual, Leslie Lamport, Duane Bibby, Addison-Wesley, 1994, Michigan
- Math Into LATEX: An Introduction to LATEX and AMS-LATEX, George Gratzner, Birkhauser Boston,

Assessment Procedure:

Online Test- 80 Marks

Assignment-20 Marks

Grading:

Marks	Grade Point	Grade
Above 90%	5	A+
80-90	4	A
70-80	3	B+
60-70	2	B
50-60	1	C+
Below 50	0	C



Principal
Deva Matha College
Kuravilangad - 686 633