DEPARTMENT OF P.G PHYSICS (S.F) DEVA MATHA COLLEGE, KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam

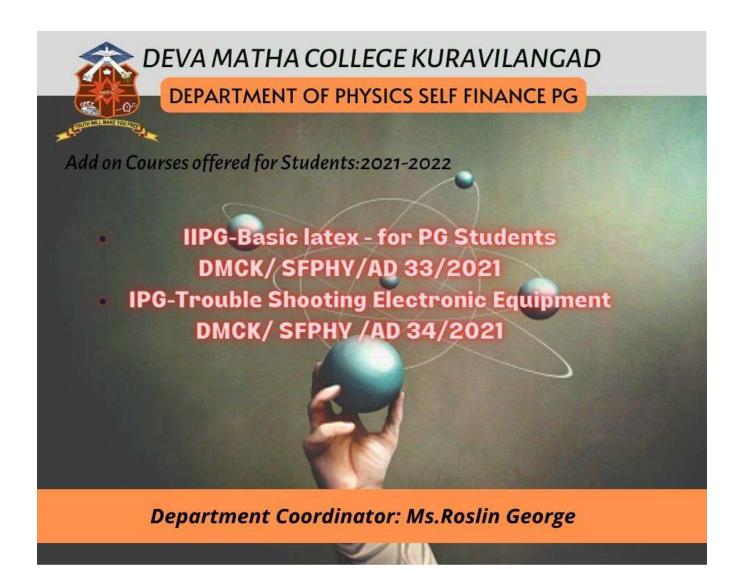


SYLLABUS

ADD-ON COURSE in Basic Latex

Conducted for II PG Student

Academic Year: 2021-22



Title: Basic Latex Instructional

Hours: 30 HrsDuration: 1 Month

Mode of Instruction: OnlineIntake

Capacity: 30

Eligibity: B.Sc Physics

Syllabus

DEVA MATHA COLLEGE KURAVILANGADADD-ON COURSE FOR THE AY 2021-22

Course Objectives

- 1. Acquire working knowledge in electronic circuits
- 2. To develop the method for the study of different circuits
- 3. To familiarize the basic electronic equipments

1 Module 1- Introduction to LATEX (10 hours)

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 (10 hours)

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 LATEXfiles 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, oraland poster presentations, advan-tages 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 Gratzer, 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	В
50-60	1	C+
Below	0	С
50		

Course Outcomes

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



Principal
Deva Matha College
Kuravilangad - 686 633