

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



DEVA MATHA COLLEGE KURAVILANGAD

DEPARTMENT OF PHYSICS SELF FINANCE PG

Add on Courses offered for Students:2021-2022

- **IIPG-Basic latex - for PG Students
DMCK/ SFPHY/AD 33/2021**
- **IPG-Trouble Shooting Electronic Equipment
DMCK/ SFPHY /AD 34/2021**

Department Coordinator: Ms.Roslin George

Title: Basic Latex Instructional

Hours: 30 HrsDuration: 1 Month

Mode of Instruction: OnlineIntake

Capacity: 30

Eligibility: 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, 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

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
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