DEVA MATHA COLLEGE KURAVILANGAD

Affiliated to Mahatma Gandhi University, Kottayam

SYLLABUS

OF

ADD-ON COURSE

IN

Documentation and Scripting in LaTeX

Academic Year: 2022-23

Title: Documentation and Scripting in LaTeX

Instructional Hours: 30
Duration: 6 months

Mode of Instruction: Online and Offline

Intake Capacity: 40 students

Eligibility: Plus Two (preferably science background in ongoing UG /PG course)

Course Objectives

1. Provide a comprehensive theoretical foundation on LaTeX
2. Enable students to prepare project reports, research articles, thesis and presentations
3. Teach how to include figures and tables in a Latex document
4. Use the preamble of LaTeX file to define document class and layout options

MODULE 1 (8 hrs.)

- Installation of the software
- Understanding LaTeX compilation
- Basic syntax

MODULE 2 (7 hrs.)

- Writing equation
- Matrix typing
- Graphics and tables in LaTeX

MODULE 3 (8 hrs.)

- Page layout-titles, abstract, chapters, sections, reference, citation

- PSTricks; Beamer presentation

MODULE 4 (7 hrs.)

- List making environments
- Writing question paper
- Writing articles/ research papers
- packages-geometry
- Drawing simple pictures, Function plotting, drawing pictures with nodes.

References

1. L. Lamport. LATEX: A Document Preparation System, User's Guide and ReferenceManual. Addison-Wesley, New York, second edition, 1994.
2. Martin J. Erickson and Donald Bindner, A Student's Guide to the Study, Practice, and Tools of Modern Mathematics, CRC Press, Boca Raton, FL, 2011.
3. M.R.C. van Dongen:LATEX and Friends, Springer-Verlag Berlin Heidelberg 2012.

4. David F. Griffths and Desmond J. Higham: Learning LATEX (second edition), Siam 2016.

Assessment Procedure

The assessment will be based on Attendance, Assignments, Practical and Theory Examination

Attendance	10
Assignment	20
Practical	20
Written Exam	50

Grading

Marks	Grade
95-100	S
80-90	A+
70-80	A
60-70	B

Principal
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Kuravilangad - 686 633