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PG DEPARTMENT OF MATHEMATICS

**MAHATMA GANDHI COLLEGE, IRITTY**

**Re-Accredited by NAAC with A Grade**

 **(Aided and Affiliated to Kannur University)**

 email: maths.mgc1@gmail.com

**CERTIFICATE COURSE IN**

**“LaTeX for Document Preparation” (**CCMATLDP)

**SYLLABUS w.e.f. 2025**

| Course Code | Theory | Practical | Marks |
| --- | --- | --- | --- |
| External | Internal | Total |
| CCMATLDP | 12Hrs | 18 Hrs | 40 | 10 | 50 |

**COURSE OUTCOMES**

| CO1 | Learn installation of the software  |
| --- | --- |
| CO2 | Understand the use of LateX in typesetting |
| CO3 | Learn basic structure of a LateX document |
| CO4 | Understand the preamble of a document |
| CO5 | Learn to include Title, Author, Date and Comments |
| CO6 | Learn to bold, italics and underlining a content |
| CO7 | Learn to add images, captions, creating list and tables |
| CO8 | Understand different Mathematics environment and Learn to write mathematical expressions using different commands |
| CO9 | Understand different types of packages |
| CO10 | Learn to create a simple letter, research article or question paper using LaTex |

**Module 1 -** What is LaTex?, Why learn LaTex?. Writing your first piece of LateX. The preamble of a document. Including title, author and date information. Adding comments. Bold, Italics and underlining. Adding Images. Captions, Labels and references. Creating list in LateX. Adding math to LateX. Different packages.

  **(10 Hours)**

**Module 2** –. Basic document structure. Abstract. Paragraphs and new lines. Chapters and sections. Creating tables. Adding boarders. Adding table of contents.

  **(10 Hours)**

**Practical Work**:

1. Prepare an article on some MSc topic (Not more than 5 pages)
2. Prepare a question paper
3. Prepare a presentation (Not more than 5 slides)

**References:**

1. ‘LaTex beginners Guide’, 2nd Edition, Steffan Kotwitz, 2021.
2. ‘More Math into LaTex’, George Gratzer, 2007.
3. e-resources