

UNIVERSITY OF MADRAS
M.Sc. DEGREE PROGRAMME IN MATHEMATICS
SYLLABUS WITH EFFECT FROM 2023-2024

SKILL ENHANCEMENT COURSE
**GROUP G-2: MATHEMATICAL DOCUMENTATION USING LATEX/
OTHER PACKAGES**

Unit I : Installation of LaTeX :

Installation of Kile and MikeTeX- Class and packages -Latex programming and commands, sample packages - Error messages : Some sample errors, list of LaTeX error messages.

Unit II : Formatting of output document :

Fonts, symbols ,indenting, paragraphs, line spacing, word spacing, titles and subtitles – Document class, page style, parts of the documents.

Unit III : Formatting of output document :

Table of contents -Command names and arguments, environments, declarations –theorem like declarations, comments within the text.

Unit –IV : Mathematical formulae :

Mathematical environments, math mode, mathematical symbols- Graphic package, multivalued functions, drawing matrices -Tables, tables with captions -References to figures and tables in text.

Unit –V : Drawing with LaTeX :

Picture environments, extended pictures, other drawing packages -Preparing book, project report in LaTeX.

Reference Book :

Guide to LATEX, Fourth edition, Helmut Kopka, Patrick W.Daly