



**Department of Mathematics**  
**Faculty of Sciences, Jamia Millia Islamia**

**Value Added Papers in Mathematics**  
**(2024-25)**  
**Course Structure and Syllabus Under NEP**

Semester	Code	Title of the Paper	Credits
I	24MATV101	Latex	2

**24MATV101 Latex**

- Unit-I Introduction to TeX and LaTeX: Typesetting a simple document, Adding basic information to a document, Sectioning and displayed material, Document class. Mathematical typesetting, Mathematical Symbols, Arrays, Delimiters.
- Unit-II Multiline formulas, Spacing and changing style in math mode, Graphics in LaTeX: Simple pictures using PSTricks, Pictures with nodes, Plotting of functions. Beamer presentation, Frames, Beamer document.

**Books Recommended**

1. D. Bindner & M. Erickson. *A Student's Guide to the Study, Practice, and Tools of Modern Mathematics*. CRC Press, Taylor & Francis Group, LLC, 2011.
2. L. Lamport, *LaTeX: A Document Preparation System, User's Guide and Reference Manual (2nd ed.)*. Pearson Education. Indian Reprint, 1994.
3. M. R. C. van Dongen, *LaTeX and Friends*. Springer-Verlag, 2012.
4. J. N. Robbins, *Learning Web Design: A Beginner's Guide to HTML (5th ed.)*. O'Reilly Media Inc, 2018.