

SYLLABUS (40 HOURS)

MODULE 1 (8HRS)

A brief History of Latex, What is Latex, Merits of LATEX over Word Processors, Demerits of LATEX, Installation of the software LATEX, Understanding LATEX compilation, LATEX input File structure, Preamble, Basic Syntex: Creating a Title Page, Page Numbering and Headings, Modifying Text etc. Use packages.

MODULE 2 (10HRS)

Writing equations, Matrix, Tables, Math in Latex, Advanced Math in Latex. Page Layout : Titles, Abstract, Chapters, Sections, Equation references, citation.

MODULE 3 (12HRS)

List making environments, Table of contents, Generating new commands , Figure handling, numbering, List of figures, List of tables, Generating bibliography and index.

MODULE 4. (10HRS)

Beamer presentation, Pstricks: drawing simple pictures, Function plotting, drawing pictures with nodes,

Tikz: drawing simple pictures, Function plotting, drawing pictures with nodes.

REFERENCES

- [1] L. Lamport: A Document Preparation System, User's Guide and Reference Manual, Addison-Wesley, New York, second edition, 1994.
- [2] M.R.C. van Dongen: LATEX and Friends, Springer-Verlag Berlin Heidelberg 2012.
- [3] Stefan Kottwitz: LATEX Cookbook, Packt Publishing 2015.
- [4] David F. Griffiths and Desmond J. Higham: Learning LATEX (second edition), Siam 2016.

[5] George Gratzner: Practical LATEX, Springer 2015.

[6] W. Snow: TEX for the Beginner. Addison-Wesley, Reading, 1992

[7] D. E. Knuth: The TEX Book. Addison-Wesley, Reading, second edition, 1986

** E- certificate will be provided to all students on completion of the course with 50% marks in the final examination and timely submission of assignments.

