Department of Mathematics

Add On Course

Course Name	Typesetting Using Latex
Course Code	MATAC001
Duration	30 Hours

About the course:LaTeX is a typesetting system suitable for producing scientific and mathematical documents. Latex gives the user extremely good control over the formatting of documents. Once it is mastered, it can be much easier to work with than a mainstream word processor when complicated formatting is necessary.

Course Objective:

1. Typeset mathematical formulae using Latex.
2. Use the preamble of Latex file to define document class and Layout.
3. Use tabular and array environment within a Latex document.

Course Outcomes:

Upon completion of this course the student will be able to:

1. Understand the basic concepts of Latex Typesetting.
2. Acquire the ability to prepare a document/ project thesis/article/book/ journals etc using Latex.

Course Content:
Module 1:
Installation of the software LATEX, Understanding LATEX Compilation.
Module 2:
Page Layout: Titles, Abstract, Chapters, Sections, Basic Syntax, Writing equations, Matrix, Tables.
Module 3:

List making environments, Table of contents, Generating new commands.
Module 4:
Equation references, Citations, Generating bibliography and Index.

References:

1. W. Snow: TEX for the Beginner. Addison-Wesely, Reading, second edition, 1986.

2. M.R.C. van Dongen: Latex and Friends, Springer-Verlag Berlin Heidelberg 2012.

3. George Gratzer: Practical Latex, springer, 2015.