



# Maharashtra Mahavidyalaya, Nilanga

Academic Year 2022-23

Department of Mathematics

Add On /Certificate Course Syllabus

## CERTIFICATE COURSE- INTRODUCTION TO LATEX AND SCILAB

Duration : 30 Hrs.

Marks : 50

### Course Objectives:

1. To introduce students with a software that is being widely used for typesetting especially in Mathematics field.
2. To make students know importance of this software for publishing research articles, papers, project reports and books and thereby help them to be comfortable with the softwar .
3. To understand the fundamentals of Scilab and Utilization.

### Course Outcomes:

Upon completion of the course, students will be able to do the following:

- ❖ prepare a Latex document, to make scientific article and project report.
- ❖ To include figures and tables in a Latex document.
- ❖ To make conference proceedings and presentations.
- ❖ Use the preamble of LaTeX file to define document class and layout options.
- ❖ Draw the graphs of various functions using Scilab

### Syllabus for LaTeX (20 hours)

Sr. No	Content	Instructional Hours
1	Installation of the software LaTeX	01
2	Page Layout – Titles, Abstract Chapters, Sections, References, Equation references, citation. List making environments Table of contents, Generating new commands, Figure handling numbering, List of figures, List of tables	07
3	Understanding Latex compilation Basic Syntex, Mathematical environments, math mode, mathematical symbols, Graphic	07

