



Dempo Charities Trust's  
DHEMPE COLLEGE OF ARTS & SCIENCE  
Miramar, Panaji-Goa

## Mathematical Typesetting LaTeX

### CourseObjective:

To introduce the basics of how LaTeX works, how to install Latex and Tex editor TeXstudio, explain how to get started, and go through lots of examples. This course will be helpful for students, research scholars and teachers to prepare their research papers, manuscripts, theses and questions papers in LaTeX.

### CourseContents:

#### 1) Set-up and compiling options

installing LaTeX and related software, and an integrated development environment

#### 2) Basics:

#inline and displayed math content

#title, author, date, maketitle, fancyhdr

#font sizes and styles, page sizes, line spacing (using geometry package)

#itemize, enumerate

#font modification: \bfseries, \itshape, color, etc.

#interpreting .log files

fixing mistakes

#commenting

#More advanced documents

#advanced equations and alignment environments from the amsmath and mathtools packages

#labeling and referencing equations

#sectioning commands, table of contents, list of figures, list of tables

#new commands

#beamer class for presentations

#Figures and tables

#tables, booktabs package

#including pictures and figures (.bmp, .jpg, .eps, etc.)

captions (including customization with the caption package)

#minipages

**Course outcome:** Upon successful completion of the class a student will be able to:

# successfully install LaTeX and its related components on a home/personal computer;

# use LaTeX and various templates acquired from the course to compose Mathematical documents, presentations, and reports

**References:** ---





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**Department:** Mathematics

A 30 hour skill Development course in Latex-Mathematical Typesetting coordinated by Vitendra Mhatondkar was conducted by the dept for students of TYBSc with alumna Akshita Singh as the resource person .The students were introduced to the fundamentals of Latex installation, usage and benefits.They also provided hands on training in the same. At the end of the course the students were able to successfully install LaTeX and its related components on a home/personal computer, use LaTeX and various templates required from the course to compose mathematical documents, presentations and reports.