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IITBombayX: LaTeX for Students, Engineers, and Scientists

Explore a new way of writing and typesetting articles, books, papers, etc. using a document preparation system called LaTeX.



7 weeks
3-4 hours per week

Self-paced
Progress at your own speed

This course is archived

[View course materials](#)

I would like to receive email from IITBombayX and learn about other offerings related to LaTeX for Students, Engineers, and Scientists.

What you'll learn

About this course

LaTeX, a document preparation system, is widely used for publishing in many scientific fields like mathematics, statistics, computer science, engineering, chemistry, physics, economics, linguistics, etc.. It is a powerful and open-source system that

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At a glance

- **Institution:** [IITBombayX](#)
- **Subject:** [Engineering](#)
- **Level:** Introductory
- **Prerequisites:**
There are no prerequisites for this course, except knowledge of basic LaTeX. The course can be taken by any learner who wants to create documents using LaTeX.
- **Language:** English

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- **Video Transcript:** English
- **Associated skills:** Computer Science, Automation, Page Layout, Writing, Aesthetics, Typesetting, Statistics, Linguistics, Physics, WYSIWYG, Document Preparations, Presentations, Economics, Chemical Engineering, Plain Text

What you'll learn

- Handle different types of documents
- Organize documents into different sections, subsections, etc..
- Formatting pages (margins, header, footer, orientation)
- Formatting text
- Write complex mathematical formulae

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Syllabus

Topic 1: Introduction

This topic introduces the learner to LaTeX, its installation, and different IDEs. The learner creates the first document using LaTeX, organizes content into sections using article and book class of LaTeX.

[Topic 2: Styling Documents](#)

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About the instructors



Deepak B. Phatak

Professor Emeritus, Department of
Computer Science and Engineering •
IIT Bombay



Firuza Karmali (Aibara)

Project Manager, Department of
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Department of Humanities and Mathematics

2021-22

REPORT

FDP on “LaTeX for Students, Engineers, and Scientists”

Date of program: 02 August 2021 to 21 November 2021

Resource person:


Deepak B. Phatak, Professor Emeritus, Department of Computer Science and Engineering at IIT Bombay


Firuza Karmali (Aibara), Project Manager, Department of Computer Science and Engineering at IIT Bombay

About the Program:

LaTeX, a document preparation system, is widely used for publishing in many scientific fields like mathematics, statistics, computer science, engineering, chemistry, physics, economics, linguistics, etc.. It is a powerful and open-source system that provides numerous facilities for automating typesetting of the document: i.e. structuring page layout, listing and auto-numbering of sections, tables, figures, generating a table of contents, managing cross-referencing, citing, and indexing. During program, I have learnt about how to

- Handle different types of documents
- Organize documents into different sections, subsections, etc..
- Formatting pages (margins, header, footer, orientation)
- Formatting text
- Write complex mathematical formulae
- Include tables and images
- Cross-referencing, bibliography, and Indexing
- Read error messages as and when required
- Create presentations using Beamer


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Signature of the Faculty member