

## SHORT TERM COURSE ON LATEX PROGRAMMING (LATEX 2024)

Organized by

Department of Mathematics, National Institute of Technology Jamshedpur

April 01- 05, 2024 (Online / Virtual Mode)

### Schedule (Tentative)

Time / Date	01-04-2024	02-04-2024	03-04-2024	04-04-2024	05-04-2024
10:00-11:00	Inaugural Session (OPENING) [Chief Guest: Prof. A. Swaminathan]	LECT04 (RKB)	LECT08 (AS)	LECT12 (RKM)	LECT16 (SDAS)
BREAK (15 Minutes)					
11:15-12:45	LECT01 (AS)	LECT05 (RKB)	LECT09 (SD)	LECT13 (RKM)	LECT17 (SDAS)
12:30-14:00	BREAK (90 Minutes)				
14:00-15:30	LECT02 (IPT)	LECT06 (PK)	LECT10 (PK)	LECT14 (SDAS)	Valedictory Session (CLOSING) [Chief Guest: Dr. Ratikanta Behera]  <b>START AT 03:00PM</b>
15:30-15:45	BREAK (15 Minutes)				
15:45-17:15	LECT03 (SD)	LECT07 (PK)	LECT11 (PK)	LECT15 (RKM)	

**AS:** Prof. A. Swaminathan, Indian Institute of Technology (IIT), Roorkee.

**RKB:** Dr. Ratikanta Behera, Indian Institute of Science (IISc), Bangalore.

**PK:** Dr. Pushpendra Kumar, Maulana Azad National Institute of Technology (MANIT), Bhopal.

**RKM:** Dr. Rakesh Kumar Meena, Jawaharlal Nehru University (JNU).

**IPT:** Dr. Indira P Tripathi, S. V. National Institute of Technology (SVNIT), Surat.

**SD:** Dr. Saikat Das, National Institute of Technology (NIT), Hamirpur.

**SDAS:** Dr. Sourav Das, National Institute of Technology (NIT), Jamshedpur.

**LECT01:** Introduction, Different platforms (Windows, Linux) in LaTeX, Installation (Important notes during installation), document class, Mathematical Terms, Symbols, Error Messages, Equations

**LECT02:** Different codes for Equations

**LECT03:** Problems in LaTeX and its Solution

**LECT04:** Include Graphics, Title, Abstract, Header/Footer, Paragraph, Section,

**LECT05:** Array, Matrix, Table, Caption, Margin, Drawing Pictures, Flow Chart

**LECT06-07:** Different font size, styles and Use of Tables in figure and Text

**LECT08:** Theorem, Lemma, Remarks, Examples, Proofs, Notes, Remarks, Class and Packages (Enumerate, Itemize, AMS Packages), Difficult mathematical formulae including Continued fractions, Special Functions, Brackets.

**LECT09:** Research Articles, Journal Formats (AMS, Elsevier, Springer etc)

**LECT10:** References/ Bibliography (Manually and Database) and citation

**LECT11:** References/ Bibliography (using Jabref, MathScinet, Google Scholar, Journal Website) and citation

**LECT12-14:** Beamer / PPT (Title page, Frame, Block, pause, enumerate etc., References, Thank You Page, ssdifferent style files)

**LECT16-17:** THESIS/ BOOK FORMATS

**NOTE:** Lectures LECT01-LECT17 are not in order. It will be adjusted according to the speakers.