



Short Term Course

Scientific Writing, Data Analysis and Visualization using LaTeX and R

Department of Physics, MNIT Jaipur

March 23 – 28, 2026

Overview

The Department of Physics, MNIT Jaipur is organizing a short term course *Scientific Writing, Data Analysis and Visualization using LaTeX and R* in hybrid mode during March 23-28, 2026. This intensive short term course is designed to equip participants with practical skills in scientific writing, data analysis, and high-quality visualization using LaTeX and R.

LaTeX is an open source high-quality typesetting system widely used for creating scientific and technical documents, theses, journal articles, technical reports, and academic presentations. The current version, LaTeX2e, is the gold standard in typesetting systems. It uses markup commands to structure content, enabling precise formatting, automatic numbering, citations, and professional document layout.

In parallel, the course introduces data analysis and visualization using **R**, an open source programming language and software environment. It is one of the most powerful and widely used tools for statistical computing and graphics. It provides extensive packages for data visualization, modeling, and statistical techniques widely used in research and industry.

This course is ideal for research scholars, UG and PG students, faculty members, and professionals who wish to enhance their research writing and data presentation skills. The program emphasizes hands-on learning, practical examples, and guided exercises to ensure participants gain confidence in applying the tools to their own academic and research work. Certificate will be awarded upon successful completion of the course.

Objective of the course

This 20-hour course is divided as follows: 8 hours are devoted to LaTeX, 8 hours to R, and the remaining 4 hours to a short integrated project. By the end of the course, participants will be able to

- Prepare structured scientific documents/presentations using LaTeX
- Format equations, tables, citations, and bibliographies professionally
- Import, clean, and analyze datasets in R
- Perform basic statistical analysis
- Create high-quality data visualizations
- Integrate analysis outputs into well-formatted scientific reports

Organizing Committee

Patron

Prof. N. P. Padhy (Director, MNIT Jaipur)

Chair

Dr. Kamendra Awasthi (Head, Dept. of Physics, MNIT Jaipur)

Convener

Dr. Anees Ahmed (Dept. of Physics, MNIT Jaipur)

Coordinators

Dr. Anirban Dutta (Dept. of Physics, MNIT Jaipur)

Dr. Subhayan Mandal (Dept. of Physics, MNIT Jaipur)

Registration

Registration is free and open to PhD/PG/UG students, post-doctoral researchers, scientists and faculty members of all disciplines. Limited to maximum 40 participants on a first-come-first-serve basis. Participants are requested to bring their own laptops.

Registration / schedule : scan the QR code below or visit <https://forms.gle/LRFZ7eGzZQBo9Pkg8>

Venue: Seminar Hall, Dept of Physics, MNIT Jaipur (hybrid mode)

Last date of registration:

March 20, 2026

For any queries please contact:

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About MNIT Jaipur

Malaviya National Institute of Technology Jaipur (MNIT Jaipur) is fully funded by the Ministry of Education, Government of India, and is an institute of national importance. The Institute is ranked 42nd in the NIRF-2025 ranking among engineering institutions across India. Extending into an area of over 317 acres of lush greenery, the Institute's campus is imaginatively laid-out with a picturesque landscape.