



Workshop on "Scientific Computing & Documentation with MATLAB and LaTeX"

Date: 2nd Sept to 4th Sept, 2025

Organized by
**Department of Mathematics,
The ICFAI University Tripura**



About the University

: ICFAI University Tripura was established in 2004 through an Act of State Legislature (Tripura Act 8 of 2004). The University has been approved by the University Grants Commission, under Section 2(f) of the UGC Act, 1956. The University campus based at Agartala is a lush green campus spread over 32 acres at Kamalghat Sadar, Tripura. It has over 6 lakhs sq. ft. of built-up area with academic blocks, workshops, laboratories, faculty rooms, auditorium, seminar halls, and computer labs with latest computing facility, well equipped library, canteen, sports and recreation facilities. The campus also provides latest teaching aids and is Wi-Fi enabled. The University is being widely recognized as an institution devoted to quality research and teaching. The University gives utmost importance to Industry-University interface. The University believes in creating and disseminating knowledge and skills in core and frontier areas through innovative educational programs, research, consulting and publishing, and developing a new cadre of citizens with a high level of competence and deep sense of ethics and commitment to the code of professional conduct.

About the Department

The Department of Mathematics of the ICFAI University Tripura started its journey in the year 2016 under Faculty of Science and Technology. As a young department it is growing very rapidly in terms of its education quality and research. Now the department offers B.Sc. (Mathematics), M.Sc. (Mathematics) and Ph.D. programs. The department has well equipped laboratories and strong research groups consisting of young energetic faculties and researchers. Research groups are mainly based on Mathematical Analysis, Topology, Algebra and Mathematical Modeling. The department is determined to impart quality education and to excel in the field of research.

About the Workshop

A workshop on MATLAB and LaTeX holds significant value for students, researchers, and professionals across science, engineering, and mathematics disciplines. MATLAB is a powerful platform for numerical computation, data analysis, simulation, and algorithm development. It is widely used in academia and industry for solving complex mathematical problems and visualizing results. On the other hand, LaTeX is a high-quality typesetting system ideal for producing well-structured scientific documents, theses, and research papers with accurate mathematical notation. The integration of MATLAB and LaTeX enhances the ability to document technical work with clarity and precision. This workshop equips participants with practical skills to write clean code, generate plots and results using MATLAB, and present them professionally using LaTeX. It fosters a deeper understanding of automation in report generation and scientific writing, which is especially useful for academic projects and publishing research.

Key Objectives

Provide a foundational understanding of MATLAB for numerical computation and LaTeX for professional document preparation. Train participants in writing MATLAB scripts, generating plots, and performing simulations, along with typesetting mathematical equations and formatting documents in LaTeX. Demonstrate how to integrate MATLAB outputs (figures, data) into LaTeX documents for seamless report and thesis generation. Encourage logical problem-solving through algorithm development and data visualization using MATLAB. Teach best practices in scientific writing, citation, and documentation to support academic and professional work. The workshop will cover the following areas:

- 1. Fundamental understanding of MATLAB and applications.**
- 2. Coding for numerical simulation**
- 3. Plotting for graphical representations.**
- 4. Logical and engineering problems.**
- 5. Latex for Articles, Reports, Books, Beamer and Bibliography.**

Who Can Participate: UG/PG students, Ph.D., Post Doc scholars and Faculties.

Platform: Online Mode (Google Meet)

Last Date of Registration: 31st August, 2025

Registration fees : Rs. 100

Registration Link:

<https://forms.gle/Rcc9pDw3PdQz5J1s6>

Fee Payment Details: Pay your registration fee to the following account

Name of the Account: ICFAI University Tripura.

A/C NO: - 910010047489436

Bank Name:- AXIS BANK Ltd

Branch :- Agartala Branch

IFSC Code: [UTIB00000276](#)

MICR Code:799211002, Type of Account: Savings

Swift Code:- AXISINBB276.

For any query contact us:

1. Dr. Mithun Adhikary:

mithunadhikary@iutripura.edu.in , +919635028035

2. Dr. Rakhal Das: rakhaldas@iutripura.edu.in,

+918974300687

Resource Persons:**Dr. Tamal Pramanick,**

Assistant Professor, Department of Mathematics,

NIT Calicut. (Expert in Matlab)

Dr. Avijit Das,

Assistant Professor,

Department of Mathematics,

NIT Silchar. (Expert in Matlab)

Dr. Abhishek Das

Assistant Professor,

Department of Mathematics,

VIT Vellore. (Expert in Matlab)

Dr. Swapnendu Panda

Assistant Professor,

Department of Mathematics,

Siksha O Anusandhan. (Expert in Latex)

Dr. Nilay Mondal

Assistant Professor, Department of Mathematics,

The ICFAI University Tripura. (Expert in Latex)

Organizing Committee**-: Chief Patron :-**

Prof. (Dr.) Biplab Halder,

Vice Chancellor, The ICFAI University, Tripura.

-: Chairman :-

Dr. A. Ranganath,

Registrar, The ICFAI University, Tripura.

-: Convener :-

Dr. Nilay Mondal,

Assistant Professor, The ICFAI University, Tripura.

-: Join Convener :-

Dr. Prasenjit Bal,

Assistant Professor & H.O.D., The ICFAI University, Tripura

-: Coordinator:-

Dr. Rakhal Das,

Assistant Professor, The ICFAI University, Tripura.

-: Join Coordinator:-

Dr. Debjani Rakshit,

Assistant Professor, The ICFAI University, Tripura.

-: Advisor :-

Prof. P. R. Barthakur,

Dean, FST, The ICFAI University, Tripura.

-: Members :-

Dr. Arnab Ghosh,

Assistant Professor, The ICFAI University, Tripura.

Dr. Mithun Datta,

Assistant Professor, The ICFAI University, Tripura.

Dr. Sayan Chandra Deb,

Assistant Professor, The ICFAI University, Tripura.

Ms. Soumi Thakur Chakraborty,

Assistant Professor, The ICFAI University, Tripura.

Dr. Mithun Adhikary,

Assistant Professor, The ICFAI University, Tripura.