



Department of Mathematics
Malaviya National Institute of Technology Jaipur

Presents

Short – Term Course

on

Modeling and Simulation in Science and Engineering
(Hybrid Mode)

February 19-23, 2024



COURSE OVERVIEW

Modeling and simulation is an effective way to get quick and better products at low cost. To facilitate the quick solution it is important to create models and analyze their physical behavior. Some techniques are used for solving the mathematical models and performing simulation using different environment such as MATLAB and COMSOL. MATLAB is a technical computing tool and interactive environment for algorithm development and numerical computations while COMSOL is another important simulation tool which provides a complete and integrated environment for modeling and simulation, and builds a user-friendly interface for models.

The aims of the course are to introduce the participants to modeling concepts, and provide a forum for attendants to discuss fundamentals of modeling techniques. Audience will also be given a hands-on experience to execute the simulation code of various real problem using MATLAB and COMSOL. This course is planned to bring together Faculty Members, Scientists, Engineers, Research Scholars, PG and UG students from Academic and Research Institutions, and Industries.

HIGHLIGHTS

- Modeling and discussion of specific models of real world problems
- Optimization techniques
- MATLAB programming in engineering
- Introduction of COMSOL
- Engineering applications of COMSOL

ABOUT MNIT JAIPUR

The Institute was jointly established in 1963 as Malaviya Regional Engineering College Jaipur by the Government of India and the Government of Rajasthan. Subsequently, on 26 June, 2002, the college was given the status of National Institute of Technology. On 15 August 2007, it was recognized as the Institute of National Importance through an Act of Parliament. The Institute is fully funded by the Ministry of Education (Shiksha Mantralaya), Government of India.

DEPARTMENT OF MATHEMATICS

Mathematics is an indispensable complement to the fields of engineering, technology and more recently life sciences. The department is constantly evolving with taking up research in new and dynamic areas of mathematics since its inception in 1963. The department is to prepare post-graduate and doctoral students for productive careers in academic by providing an excellent environment for teaching, learning, and research in pure and applied mathematics.

SPEAKERS

Eminent speakers from IITs, NITs & other premier universities across India.

ORGANISING TEAM

Patron	Prof. N. P. Padhy Director, MNIT Jaipur
HoD	Dr. Vatsala Mathur Department of Mathematics
Coordinators	Dr. Santosh Chaudhary Associate Professor, Mathematics Dr. Ritu Sharma Associate Professor, ECE

REGISTRATION DETAILS

Registration Link	:	Click here
Registration Fee (including GST@ 18%)		
Student/Research Scholars	:	₹ 1180
Faculty Members	:	₹ 1770
Industries/R&D Organizations	:	₹ 2360

PAYMENT DETAILS

Bank Details	ICICI Bank Ltd.
Account Name	Registrar (Sponsored Research) MNIT, Jaipur
Branch Name	MREC Branch, Malviya National Institute of Technology, Jaipur-302017
Account Number	676801700388
IFSC Code	ICIC0006768

IMPORTANT DATES

Registration Starts	:	08 th January, 2024
Registration Ends	:	10th 12 th February, 2024

CONTACT PERSON

Dr. Santosh Chaudhary
Email : confstc24@mnit.ac.in
WhatsApp No.: 9549654566