



Faculty Development Program on

Intelligent Computing with MATLAB

22–24 October, 2026	05.00 PM to 08.00 PM
	Mode: Live Interactive Online Session

Program Overview

MATLAB is a leading computational platform widely used in academia, research, and industry for data analysis, visualization, statistical computing, machine learning, and artificial intelligence. As data-driven technologies continue to shape modern research and industry, MATLAB proficiency has become an essential skill across STEM disciplines. This Faculty Development Program (FDP) is designed to equip participants with industry-relevant and research-oriented computational skills. Through hands-on training, expert lectures, and interactive sessions, participants will explore data analytics, statistical analysis, machine learning, and AI using MATLAB. The program aims to bridge the gap between academic learning and industry needs, enabling participants to enhance their teaching, research, innovation, and problem-solving capabilities in today's rapidly evolving technological landscape.

Program Modules

MATLAB Fundamentals

Overview of the key features of the MATLAB programming environment, graph customization, and visualization.

Advanced Signal Processing and Deep Learning

Wavelet scattering for feature extraction and image recognition, comparison of classical machine learning and deep learning approaches.

Intelligent Fuzzy Control Design and Implementation

Fuzzy rule-based control design, MATLAB coding and implementation, controller simulation, and performance evaluation for intelligent decision-making systems.

Applications in Statistical Analysis, Machine Learning and Artificial Intelligence

Introduction to machine learning and artificial intelligence concepts, data preprocessing, classification, clustering, neural networks, and real-world applications using MATLAB.

Advanced Applications of Linear Algebra, Partial Differential Equations, and Fractal Analysis

Computational methods and visualization for PDEs, fractal geometry & generation, visualization, and real-world applications.

Facilitators



Dr. Saurabh Verma

Assistant Professor, Department of Applied Sciences, Indian Institute of Information Technology, Allahabad.



Dr. Sudhakar Chaudhary

Associate Professor, Mathematics, Institute of Infrastructure, Technology, Research and Management, Ahmedabad.



Mr. Kunal Subhash Khandelwal

Senior Application Engineer, DesignTech Systems (MathWorks Partner)



Dr. Pratibhamoy Das

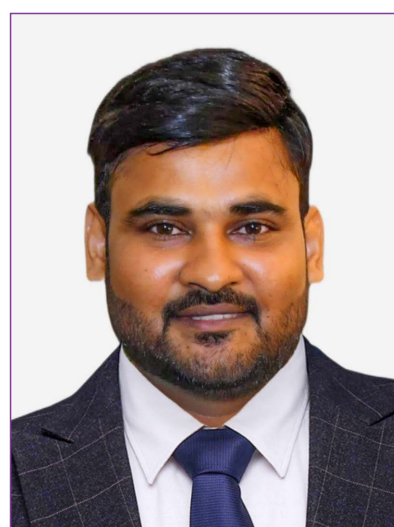
Assistant Professor, Department of Mathematics, Indian Institute of Technology, Patna.



Co-ordinator

Dr. Ankit Sharma

Assistant Professor, Faculty of Sciences, Adani University, Ahmedabad.



Co-coordinator

Dr. Yogendra Singh

Assistant Professor, Faculty of Sciences, Adani University, Ahmedabad.

Investment

Rs. 499 per participant for faculty members and Rs. 399 for Ph.D. Scholars.

The fees include training charges, program fees, digital handouts, and digital certificate of participation from Adani University.

Contact Details

Mobile: +91 7600847336

Landline: +91 79 2555-4911

Email: cce@adaniuni.ac.in



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