

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

Faculty Enrichment Programmes

The Department of Artificial Intelligence & Data Science is committed to fostering a culture of continuous professional development and lifelong learning among academicians, researchers, and industry professionals. As part of this commitment, the department regularly organizes Faculty Development Programmes (FDPs), and Workshops aimed at enhancing knowledge in emerging technologies and innovative pedagogical practices.

Recognizing the rapidly evolving landscape of Artificial Intelligence and Data Science, the department conducts **at least one Faculty Development Programme in every academic year**, bringing together eminent academicians, researchers, and industry experts to share cutting-edge developments, research trends, and practical insights. These programmes are designed to strengthen technical competencies, promote interdisciplinary learning, and encourage collaborative research and innovation.

The major themes covered through our Faculty Enrichment Programmes include:

- **Agentic Artificial Intelligence**
- **Generative Artificial Intelligence (GenAI)**
- **Robotic Operating System (ROS)**
- **Mathematical Foundations for Artificial Intelligence and Data Science**
- **Statistical Modelling for Data Science**
- **Demystifying Machine Learning Algorithms**
- **Technology-Enabled Instructional Methods for Teaching-Learning Process (TLP)**

The department takes pride in serving as a platform for knowledge dissemination and capacity building, thereby contributing to the development of competent educators and researchers capable of addressing the challenges of the digital era.

Brochures of Faculty Development Programmes

The brochures of the Faculty Development Programmes organized by the department over the years are provided below for reference. They contain details regarding the programme objectives, schedule, resource persons, and learning outcomes, reflecting the department's sustained efforts toward academic excellence and professional enrichment.

ABOUT MITS

Muthoot Institute of Technology and Science (MITS) is a premier autonomous engineering institution affiliated to A.P.J. Abdul Kalam Technological University. MITS is approved by AICTE and offers NBA accredited undergraduate programmes in various Engineering disciplines. The institution also offers postgraduate programmes in Engineering and Computer Applications.

ABOUT DEPARTMENT

Department of Artificial Intelligence & Data Science offers two undergraduate programmes namely CSE(AI) and AI&DS. It also offers a postgraduate programme in AI&DS. The courses offered in this department aim at imparting both basic and advanced level skills & knowledge that are important in the fields of AI, Machine learning, Deep Learning, Data Science, Bigdata Analytics, Data Visualization etc.

DEPARTMENT VISION

To be a centre of excellence in learning, research, and technology development in the field of Artificial Intelligence and Data Science with a strong sense of social responsibility.

DEPARTMENT MISSION

- To facilitate state-of-the-art teaching and learning to meet the expectations of the stakeholders.
- To empower students towards technology development & transfer, to solve socially relevant problems.
- To promote collaborative research through long-term interaction with industry and R&D institutions.

ORGANIZING COMMITTEE

Chief Patron:

Dr Neelakantan P. C.
Principal, MITS

Advisory Committee:

Dr Shajimon K. John
Dean Academics, MITS
Dr Rajesh Cherian Ray
Chairperson, Division of Computer Science, MITS
Dr Cerene Mariam Abraham
HOD, Department of AI&DS, MITS

FDP Coordinator:

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Department of Artificial Intelligence and Data Science Presents Five Day Online Faculty Development Programme on AGENTIC AI



05/02/2026-07/02/2026 &
09/02/2026-10/02/2026



ONLINE (6:00 P.M TO 8:30 P.M)

LEARNING OUTCOMES OF THE FDP

- At the end of the FDP, participants will be able to
- Distinguish between traditional AI systems, AI agents, and agentic AI architectures.
 - Analyze cognitive models and reasoning mechanisms used in agentic systems.
 - Design agentic workflows for autonomous task execution.
 - Compare and model single-agent and multi-agent agentic systems.
 - Implement basic agentic systems using modern programming frameworks.

TARGET AUDIENCE

Faculty Members of AICTE Approved Institutions, Research Scholars, PG Students and Industry Professionals

REGISTRATION FEE Rs.500

Last Date of Registration **28th January 2026**

Registration link



Scan me

SCHEDULE



Day 1 : (05/02/2026 - Thursday)
Foundations of Agentic AI
Dr Manu Madhavan
Assistant Professor, IIT Kottayam



Day 2 : (06/02/2026 - Friday)
Programming Frameworks for Agentic System
S Mohammed Shafeeq Hameed
Senior Software Engineer, Qburst



Day 3 : (07/02/2026 - Saturday)
Agentic Workflow Orchestration
Pradeep T
Senior Data Scientist, IBM



Day 4 : (09/02/2026 - Monday)
Cognitive Models In Agentic AI
Dr Jimson Mathew
Dean Student Affairs & Professor,
Dept. of CSE, IIT Patna



Day 5 : (10/02/2026 - Tuesday)
Multi-Agent Systems and Agentic RAG
Dr Shalish Sivan
Principal AI Architect, Laennec AI Ltd



Department of Artificial Intelligence and Data Science
Presents
Five Days Online FDP on
GenAI: Unleashing the Power of Language and Vision Models



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Dean Academics, MITS.

Dr. Rajesh Cherian Roy

Chairperson, Division of Computer Science, MITS.

FDP Coordinator:

Dr. Sumam Mary Idicula

Professor and Head of the Department
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Mobile Number: 9495016805

FDP Co-coordinator:

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Ms. Linu Paulose

Assistant Professor,
Artificial Intelligence and Data Science Department
MITS, Ernakulam.

Email ID:linupaulose@mgits.ac.in

Mobile Number: 9947708656

SCHEDULE



Day 1 : Deep learning for Language & Image Processing

Dr. Resmi N G, Assistant Professor,
Chinmaya University, Ernakulam



Day 2 : Generative Models (VAE,GAN,DDPM)

Dr. Bindhu Krishnan,
Senior Data Scientist,
Data & AI, IBM Kochi



Day 3 : LLMs and Fine-tuning of LLMs

Dr. Jeena Kleenankandy,
Assistant Professor
Department of Computer Science,
CUSAT



Day 4 : GenAI & VLMs

Dr. Sowmya V, Associate Professor,
School of Artificial Intelligence, Amrita
University Coimbatore



Day 5 : Diffusion Models for AI Image Generation

Dr. Anil Raj J, Scientist, Data and AI
Dept. ISL, IBM Kochi

TARGET AUDIENCE

Assistant Professors/Associate Professors/Ph.D. Scholars/PG students from the Higher Education Institutions

16/06/2025-20/06/2025

ONLINE (6:00 P.M TO 9:00 P.M)

LEARNING OUTCOMES OF THE FDP

- To gain a comprehensive understanding of deep learning techniques, including encoder-decoder networks, attention mechanisms, transformers, and large language models (LLMs).
- To get acquainted with the latest research trends in language processing and computer vision models, enabling them to stay updated with the advancements in the field and potentially contribute to ongoing research.
- To learn about the diverse applications of GenAI and how they can be optimized for specific tasks by exploring the repertoire of tools for tackling real-world problems.

HIGHLIGHTS OF FDP

Deep learning for Language & Image Processing, Generative Models (VAE,GAN,DDPM), LLMs and Fine-tuning of LLMs, Gen AI and VLMs, Diffusion Models for AI Image Generation

REGISTRATION FEE Rs.500

Last Date of Registration **10 June 2025**

Registration link



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TECHNOLOGY ENABLED INSTRUCTIONAL METHODS FOR EFFECTIVE TEACHING

2-DAY FACULTY DEVELOPMENT PROGRAMME

RESOURCE PERSONS

**DR. TESYMOL
CYRIAC**

ASSOCIATE PROFESSOR & HOD
BSH DEPARTMENT
MUTHOOT INSTITUTE OF TECHNOLOGY AND
SCIENCE



SHEENA Y

ASSISTANT PROFESSOR
AI&DS DEPARTMENT
MUTHOOT INSTITUTE OF TECHNOLOGY
AND SCIENCE



DATE

25, 26 NOVEMBER 2024



TIME

2.00 PM – 4.00 PM



VENUE

JOHN MCCARTHY LAB, MITS



DEPARTMENT OF
ARTIFICIAL
INTELLIGENCE AND
DATA SCIENCE

Department of Artificial Intelligence and Data Science

Two day FDP "UNLOCKING ROBOTICS WITH ROBOT OPERATING SYSTEM"

Speaker



HARINARAYANAN NAMPOOTHIRI M G

ASSISTANT PROFESSOR AND RESEARCH SCHOLAR (ROBOTICS AND CONTROL), SAINTGITS COLLEGE OF ENGINEERING



Date : 18th and 19th January 2024

Venue: John McCarthy lab

