



ABV-INDIAN INSTITUTE OF INFORMATION TECHNOLOGY AND MANAGEMENT, GWALIOR

(An Institute of National Importance)

Department of Computer Science and Engineering

FACULTY DEVELOPMENT PROGRAMME (Online)



“Emerging Trends in Intelligent IoT and the Computing Continuum: Matching Theory, Machine Learning, Generative AI, Predictive Analytics, and Trustworthy AI”



02nd to 06th
November 2026



Online Mode

About the Faculty Development Programme (FDP)

This FDP provides an overview of emerging technologies in Intelligent IoT and the Computing Continuum, with a focus on Matching Theory, Machine Learning, Generative AI, Predictive Analytics, and Trustworthy AI. The program combines foundational concepts, recent research advancements, practical applications, and hands-on sessions to equip participants with the knowledge and skills required to develop intelligent, efficient, and trustworthy IoT and computing systems.

Who Can Attend

- Faculty members from colleges, universities, and technical and professional institutions.
- Students, fresh graduates, researchers, and industry professionals working in allied disciplines are also encouraged to participate.

Objectives and Key Topics

- Intelligent IoT and Computing Continuum:** Fundamentals, architectures, and emerging applications.
- Matching Theory for Task Offloading:** Efficient task offloading, resource allocation, and service mapping in IoT-Fog environments.
- Machine Learning for Intelligent Systems:** Lightweight ML for intelligent decision-making and anomaly detection.
- Predictive Analytics for Smart IoT Systems:** Workload forecasting, resource demand estimation, and proactive management.
- Generative AI & Large Language Models:** Emerging generative intelligence for next-generation systems.
- Trustworthy & Explainable AI:** Principles and techniques for transparent, fair, responsible, and explainable AI.

Five-Day FDP Schedule

Day 1	Intelligent IoT and Computing Continuum: Foundations
Day 2	Matching Theory for Task Offloading and Intelligent Resource Allocation
Day 3	Machine Learning and Predictive Analytics for IoT
Day 4	Large Language Models and Trustworthy AI
Day 5	Generative AI

Hands-on Sessions

- Basic Computing Setup
- Task Offloading Simulation
- Matching Theory Implementation
- Machine Learning Model Development
- IoT Data Analysis and Visualization
- Predictive Analytics using Python
- Explainable AI Demonstration
- AI-Based Resource Optimization

Course Coordinators

- Dr. Chittaranjan Swain**
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Registration Fees

Category	Fees (INR)
Students (UG/PG/PhD)	500/-
Faculty	700/-
Industry Professionals	2,000/-

Bank Account Details

- Account Name** : Director, ABV-IIITM, Gwalior
- Account Number** : 945210110009380
- Name of the Bank** : Bank of India
- IFSC Code** : BKID0009462
- Bank Address and Branch** : IIITM Branch, Gwalior
- UPI ID** : boim-945263969380@boi



Registration Link

<https://forms.gle/YzruDyFLkgAkP8VGA>

**Last date to register –
01-November-2026**

आयोजक / Organized by

कम्प्यूटर विज्ञान एवं
अभियांतिकी विभाग,
ABV-IIITM ग्वालियर

Department of Computer
Science and Engineering,
ABV-Indian Institute of
Information Technology
and Management,
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★ Key Highlights

Knowledge

Research Insights

Practical Exposure

Certificate

Access to Lecture Slides

Experts from IITs, IIITs, NITs & Industry

Important Dates

Last Date for Registration:
01-November-2026

FDP Dates:
02-November-2026 to 06-November-2026