About Electronics & ICT Academy at

PDPM IIITDM Jabalpur

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers.

About ABV-IIITM Gwalior

Atal Bihari Vajpayee-Indian Institute of Information Technology and Management, Gwalior, is a premier institution for higher education and research in the fields of information technology and management. Established by the Government of India, it focuses on grooming professionals with a blend of technical expertise and managerial skills. The institute offers undergraduate, postgraduate, and doctoral programs, fostering innovation and entrepreneurship among its students. With state-of the-art facilities, experienced faculty, and industry collaborations, ABV-IIITM Gwalior aims to produce leaders capable of addressing contemporary challenges in technology and management domains.

Faculty Development Programme
On
Role of AI in Next Generation Communication and Sensing Technology

This FDP focuses on exploring the integration of artificial intelligence with modern wireless and sensing systems. It aims to provide participants with a strong foundation in AI techniques applied to 5G, 6G, and beyond communication networks. The program highlights how AI can be applied to enhance the performance of next generation wireless network. It also covers intelligent sensing mechanisms, including IoT-based and drone-enabled systems. The FDP includes hands-on sessions, and emerging research trends. Experts from academia and industry contribute to bridging theoretical and practical perspectives.

Who can attend: Suitable for faculty and PhD Scholars from colleges, universities, and technical and professional institutes can attend. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: 27th June, 2026
FDP Dates: 29th June — 08th July, 2026 (Revised)

Coordinators:

Dr. Binod Prasad, ABV-IIITM Gwalior
Dr. Satish Kumar Tiwari, IIITDM Jabalpur

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Faculty Development Programme
On
Role of AI in Next Generation Communication and Sensing Technology

Jointly Organized by

ABV-IIITM Gwalior

विश्वजीवनामृतं ज्ञानम्

and

Electronics and ICT Academy
IIITDM Jabalpur

An Initiative of the Ministry of Electronics and Information Technology, Government of India

Digital India
Power To Empower

Faculty Development Programme

On

Role of AI in Next Generation Communication and Sensing Technology

Date: 29th June — 08th July, 2026 (online)

Resource Persons (Tentative)

- Prof. Ratnajit Bhattacherjee (IIT Guwahati)
- Prof. Sumit Kundu (NIT Durgapur)
- Prof. Shankar Prakriya (IIT Delhi)
- Dr. Binod Prasad (ABV-IIITM Gwalior)
- Dr. Satish Kumar Tiwari (IIITDM-Jabalpur)
- Dr. Pragya Swami (ABV-IIITM Gwalior)
- Dr. Gopi Ram (NIT Warangal)
- Dr. Pratik Chakraborty (IIIT Kalyani)
- Dr. Vinal Patel (ABV-IIITM Gwalior)
- Dr. I.A. Ansari (ABV-IIITM Gwalior)

Coordinators

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Dr. Satish Kumar Tiwari,

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IIITDM Jabalpur

Course Contents

- Fundamentals of wireless communication systems
- AI/ML for wireless communication and signal processing
- Network architecture and designs for ISAC
- Interference management and performance analysis for ISAC.
- UAV and IRS assisted Communication
- Recent development in Antenna design for ISAC.
- Cognitive radio enabled ISAC

Hands-On Sessions

- Implementation of AI/ML model for basic communication networks
- Channel estimation using AI/ML
- AI/ML based Spectrum sensing
- Signal classification and channel estimation
- CR for spectrum sensing
- Antenna design for ISAC

Programme Features

- Lectures and demonstrations by domain experts covering real-world challenges
- Opportunities to connect with experts in the field.
- Application of artificial intelligence in various applications of Network Systems.
- Certificate on successful completion with full access to the course material.
- Use of Modern Tools and Platforms

Registration Details

- Registration link –Registration
- Registration fee: INR 500/- for online participation
- Last Date for Registration: **27th June**

Seats will be allocated on a first-come, first-served basis. Candidates will be issued satisfactory certificates on successful completion of the course.

Online Payment Details

- **Internet banking**

Beneficiary Name	ABVIIITM FDP ACCOUNT
Bank Name	Bank of India
A/C No.	945210110009380
IFSC Code	BKID0009462

- **UPI ID:** boim-945263969380@boi
- **QR Code:**