

## About Electronics & ICT Academy at PDPM IITDM 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 IITDM 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 IIIT Nagpur

Indian Institute of Information Technology, Nagpur (IIITN) is one of the 20 Indian Institutes of Information Technology established under the Public-Private Partnership Scheme by the Ministry of Human Resource Development, Government of India. IIITN has been declared as an “Institution of National Importance” under the provisions of the Indian Institute of Information Technology (Public-Private Partnership) Act, 2017. The institute started functioning during the year 2016-17 and shifted to its Permanent campus in Butibori, Nagpur under the Department of Higher Education, Ministry of Education, Government of India (Formerly Ministry of Human Resource Development) and supported by the Department of Higher Education, Government of Maharashtra and Tata Consultancy Services, Mumbai as Industry Partner.

## Faculty Development Programme On

### Frontiers of AI: An Interdisciplinary Journey from Fundamentals to Futuristic Innovations

The course offers foundational and advanced insights into interdisciplinary advancements in Artificial Intelligence (AI). It equips participants with theoretical concepts, practical hands-on skills, and exposure to cutting-edge research and case studies. Domains covered include healthcare, agriculture, security, finance, industry, cloud computing, social networks, and emerging research areas. Participants will gain expertise in deep learning, privacy-preserving methods, computational modeling, cloud intelligence, and responsible AI, enabling them to innovate effectively in the evolving AI landscape.

**Who can attend:** Faculty, PhD scholars, UG and PG students.

### Important Dates:

**Last Date of Online Registration: 16th Aug 2025**

**FDP Dates: 18-29 Aug, 2025**

### Coordinators:

- Dr. Akshay Pandey, IIITDM, Jabalpur (9074525228, [drakshay@iiitdmj.ac.in](mailto:drakshay@iiitdmj.ac.in))
- Dr. Rahul Semwal, CSE, IIIT Nagpur (9634985816, [rsemwal@iiitn.ac.in](mailto:rsemwal@iiitn.ac.in))
- Dr. Suvra Jyoti Choudhury, CSE, IIIT Nagpur (9563467094, [schoudhury@iiitn.ac.in](mailto:schoudhury@iiitn.ac.in))

### Contact us:

[academy@iiitdmj.ac.in](mailto:academy@iiitdmj.ac.in), [eict@iiitdmj.ac.in](mailto:eict@iiitdmj.ac.in),  
Durgesh Kushwaha: 7898670354

## Faculty Development Programme On

### Frontiers of AI: An Interdisciplinary Journey from Fundamentals to Futuristic Innovations

**August 18-29, 2025 (Online Mode)**

**Jointly Organized by  
Indian Institute of Information  
Technology Nagpur**



And



**Electronics and ICT Academy  
IIITDM Jabalpur**



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



## Faculty Development Programme

On

### Frontiers of AI: An Interdisciplinary Journey from Fundamentals to Futuristic Innovations

August 18-29, 2025 (Online Mode)

#### Resource Persons

- Dr. Vijay Bhaskar Semwal, MANIT Bhopal
- Dr. Anjali, ABV-IIITM Gwalior
- Dr Poornima Singh Thakur, ABV-IIITM Gwalior
- Dr. Jagdish Chakole, IIIT Nagpur
- Dr. Roshni Chakraborty, ABV-IIITM Gwalior
- Dr. Kaushlendra Sharma, IIIT Nagpur
- Dr. Sandeep Singh Sengar, Cardiff Metropolitan University, United Kingdom
- Dr. Shishupal, IIIT Nagpur
- Dr. Kaustuv Nag, IIIT Guwahati

#### Course Contents

- Foundation of AI
- Smart Healthcare: AI for Health.
- Precision Agriculture: AI for Smart Farming.
- Securing Tomorrow: AI in Security & Surveillance.
- Financial Intelligence: AI in Finance.
- Smart Industry: AI in Industry 4.0.
- Cloud Intelligence: AI in Cloud Computing.
- Social-AI: AI in Social networking.
- Emerging research in AI.

## Hands-On Sessions

The practical sessions are designed to provide an immersive, hands-on experience in implementing AI techniques across various applications. Participants will actively engage in exercises involving the deep learning models specifically convolution neural network, and it's implementation, artificial intelligence in health, artificial intelligence in agriculture specifically application of Vision Transformer for Plant Disease Classification, artificial intelligence in finance specifically application of Deep learning and Reinforcement Learning for Algorithmic trading, artificial intelligence in industry specifically application of Human Activity recognition using tinyML on IOT system, artificial intelligence in security specifically application of AI in cybersecurity foundations tools and threat, application of robotics, application using cloud computing, application of social networking, application of Graph based Approaches for Online Social Networks and Computational Journalism, application of Ethical AI and application of transform learning. These sessions emphasize practical skills, enabling participants to apply AI solutions in real-world scenarios confidently.

#### Programme Features

- Rigorous training for theoretical and practical knowledge on various artificial intelligence techniques in various fields.
- Opportunities to connect with experts in the field.
- Instructor-led, rigorous hands-on sessions.
- Instructor-led & guided hands-on sessions on the aforementioned theoretical topics.

## Registration Details

- Registration link – Please fill out registration using the following link: <https://forms.gle/PLqdrK5iT1PVtHgA6>
- Registration fee: 500/ for online participation
- Last Date for Registration: 16/08/2025

## Online Payment Details

#### • Internet banking

|                  |                    |
|------------------|--------------------|
| Beneficiary Name | PDPMIITDM Jabalpur |
| Bank Name        | INDIAN BANK        |
| A/C No.          | 50018692852        |
| IFSC Code        | IDIB000M694        |

- **UPI ID:** [iiitdmj@indianbk](mailto:iiitdmj@indianbk)
- **QR Code:**



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