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. In addition to the faculty development programmes (FDPs) on fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized training programmes for students, corporate sectors and research promotion workshops in emerging areas. The Academy is identified by the MeitY as the central hub of activities on training, internships, research, and consultancy programmes.

About PDPM IIITDM Jabalpur

PDPM IIITDM Jabalpur was established in 2005 with a focus on education and research in IT-enabled Design and Manufacturing. Since its inception, PDPM IIITDM Jabalpur has been playing a vital role in producing quality human resources for contribution to India's mission of inclusive and sustainable growth. The Institute offers undergraduate, postgraduate and PhD programmes in Computer Science and Engineering, Electronics and Communication Engineering, Mechanical Engineering, Design and PhD programmes in Mathematics, Physics and Literature. Further, the Institute offers an undergraduate programme in Smart Manufacturing. Under IIIT act, the Institute has been declared as an Institute of National Importance. The Institute campus is developed on 250 acres of land close to Dumna Airport, Jabalpur. The Institute is 10 kms from the main railway station and 5.5 kms from Dumna Airport, Jabalpur.

Faculty Development Programme on
AI in Precision Agriculture: Transforming Farming with Intelligent Technologies

The course is designed to provide participants with in-depth knowledge of emerging AI-driven technologies and methodologies in precision agriculture. It aims to equip educators, researchers, and practitioners with tools to collect, process, and analyze agricultural data, integrate IoT and UAV systems, and apply machine learning for intelligent decision-making. Participants will explore real-world applications in crop monitoring, yield prediction, resource optimization, and sustainable farming practices.

Who can attend: The Programme is open to faculty from all colleges, universities, and technical and professional institutes. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend.

Important Dates:

Last Date of Online Registration: Oct 20, 2025

FDP Dates: October 27 to November 1, 2025

Coordinators:

Prof Aparajita Ojha and Dr Akshay Pandey
Computer Science and Engineering Discipline
PDPM IIITDM Jabalpur

Contact us:

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Faculty Development Programme on
AI in Precision Agriculture: Transforming Farming with Intelligent Technologies
(Physical Mode)

October 27 to November 01, 2025

Electronics and ICT Academy, Phase II

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

PDPM Indian Institute of Information Technology, Design and Manufacturing, Jabalpur
Dumna Airport Road, Jabalpur 482005

Faculty Development Programme on

AI in Precision Agriculture: Transforming Farming with Intelligent Technologies
(Physical Mode)

October 27 to November 01, 2025

RESOURCE PERSONS

- Dr. Anil Kumar, IIRS, Dehradun
- Dr. Subho Paul, IIT BHU, Varanasi
- Dr. Poornima Singh Thakur, IIITM, Gwalior
- Dr. Suresh Merugu, University of Southampton Malaysia (UoSM)
- Dr. Surendra Kumar Chandniha, Indira Gandhi Krishi Vishwavidyalaya, Raipur
- Dr. Sunil Kumar Dubey, MNCFC, Delhi
- Prof Aparajita Ojha, IIITDM Jabalpur
- Dr. Akshay Pandey, IIITDM Jabalpur

COURSE COORDINATORS

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Course Contents

- From Traditional to Precision Agriculture: Concepts, evolution, and significance
- Agricultural Data Fundamentals: Types, sources, and quality considerations
- Remote Sensing in Agriculture: Principles, sensors, and spectral signatures
- Geographic Information Systems (GIS) for Precision Farming
- Satellite Data in Agriculture: Acquisition, pre-processing, and interpretation
- Internet of Things (IoT) in Agriculture: Sensor networks, data loggers, and integration
- Edge AI in Agriculture: Real-time, on-field data processing and decision-making
- Deep Learning in Agriculture: Image-based crop and soil analysis, object detection
- AI in Crop Health Monitoring: Disease detection, pest identification, and stress analysis
- Drones in Agriculture: Imaging, mapping, and crop health assessment workflows
- Economic, Policy, and Market Perspectives in AI-Driven Farming
- Ethics, Data Privacy, and Challenges in Agricultural AI Adoption
- Case Studies
- Hands-on Demonstrations

Programme Features

- Covers AI, IoT, UAVs, GIS, Remote Sensing, Cloud & Edge Computing for Precision Agriculture.
- Opportunities to connect with experts in the field.
- Instructor-led rigorous hands-on sessions with online (live streaming) sessions.
- Certificate on successful completion with full access to the course material.

Registration Details

- Registration link – Please fill out registration using the following link: https://forms.gle/mEd24zWwSCerZmKLA
- Registration fee: 1000 INR
- Last Date for Registration: **Oct. 20, 2025**

Online Payment Details

- **Internet banking**

Beneficiary Name	PDPM IIITDM Jabalpur
Bank Name	INDIAN BANK
A/C No.	50018692852
IFSC Code	IDIB000M694

- **UPI ID: iiitdmj@indianbk**

- **QR CODE**

PDPM IIITDM JABALPUR
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