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 ECE & EE at CU

The Department of ECE & EE at Chandigarh University has completed 12 years on this modernized and lush green campus. The UG program of the ECE & EE department has been accredited by the NBA & ABET. Industry oriented best curriculum offering flexible and choice-based learning approach with futuristic & globally compatible academics which includes core as well as advance practical based subjects.

About Faculty Development Programme

The course offers foundational insights into recent innovations in agriculture through smart sensors, the Internet of Things (loT) and artificial intelligence (Al). It explores how these technologies enhance precision farming, improve crop monitoring, optimize resource use, and support sustainable practices. Learners will gain an understanding of real-time data collection, automated decision-making, and predictive analytics, equipping them with the knowledge to implement advanced, eco-friendly farming solutions that boost productivity while minimizing environmental impact.

Who can attend: Suitable for faculty 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: 17 May, 2025
FDP Dates: 19 – 24 May, 2025

Coordinators:

Dr. Rekha Devi
Assistant Professor, EE, CU
Associate Professor, ECE, CU
Dr. Akshay Pandey
Assistant Professor, PDPM IIITDM Jabalpur

Contact us:

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Faculty Development Programme
On
SMART SENSORS, IOT, AND AI IN AGRICULTURE: INNOVATIONS FOR SUSTAINABLE FARMING
Jointly Organized by

Department of ECE & EE
Chandigarh University, Punjab
and
Electronics and ICT Academy
IIITDM Jabalpur

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

Faculty Development Programme

SMART SENSORS, IOT, AND AI IN AGRICULTURE: INNOVATIONS FOR SUSTAINABLE FARMING
19-24 May 2025 (Online mode)

Resource Persons

Dr. Balwinder Singh, C-DAC, Mohali

Dr. Brajesh Rawat, IIT Ropar

Dr. Mandeep Singh, C-DAC, Mohali

Dr. Balwinder Raj, NIT, Jalandhar

Dr. K. G. Sharma, CCET, Chandigarh

Dr. Vibuthi, CSIR-CSIO

Dr. Tripti Sharma, Chandigarh University

Prof. (Dr.) Rajesh Singh, Director- Research & Innovation, Uttaranchal University, Dehradun

Prof. (Dr.) Anita Gehlot, Head- Research & Innovation, Uttaranchal University, Dehradun

Dr. Baban kumar S Bansod, CSIR-CSIO

Ms.Sunita Rajain,Senior Software Engineer@Intuit

Dr.Satish Kumar, CSIR-CSIO

PATRONS

Prof. (Dr.) Bhartendu K Singh
Director IIITDM Jabalpur

Prof. (Dr.) Rajiv Kumar Chechi
Director Engineering CU

Prof. (Dr.) Tripti Sharma
Assistant Director-Engineering CU

CONVENER

Prof. (Dr.) Rishabh Dev Shukla
Head of the Departments - ECE & EE, CU

Course Contents

- Smart Agriculture
- Sensor Technology
- Internet of Things (IOT)
- Artificial Intelligence (AI)
- Data Analytics
- Sustainable Farming
- AgriTech Innovations

Hands-On Sessions

- Smart Sensors, IoT, and AI in Agriculture: Innovations for Sustainable Farming
- Sensor-Driven Farming: Precision Techniques for Smarter Agriculture
- Interfacing various sensors (Soil Moisture, NPK, EC, pH, Temp & Humidity) with Arduino IoT board and send data to cloud platform
- Crop Disease Detection Using AI and Image Processing
- TinkerCAD platform for Arduino Project simulation using different electronic components
- AI-Based Weed Detection System

Programme Features

- Expert Sessions by academicians and industry professionals
- Hands-on Training with LOT sensors, devices, and AI tools
- Real-World Case Studies from smart agriculture projects
- Certificate on successful completion with full access to the course material.

Registration Details

- Please fill out registration using the following link: "Registration link "
- Registration fee: 500/- INR
- Last Date for Registration: 17 May, 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**