

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 MNNIT Allahabad

Motilal Nehru National Institute of Technology (MNNIT) Allahabad, Prayagraj is an Institute with total commitment to quality and excellence in academic pursuits. It was established as one of the seventeen Regional Engineering Colleges in India in the year 1961 as a joint enterprise of the Government of India and the Government of Uttar Pradesh and was an associated college of the University of Allahabad, which is the third oldest university in India. For a short duration of two years (2000-2002), the Institute was affiliated to U.P. Technical University. With over 45 years of experience and achievements in the field of technical education, having traversed a long way, on June 26, 2002, MNREC was transformed into National Institute of Technology and Deemed University fully funded by Government of India. With the enactment of the National Institutes of Technology Act-2007 (29 of 2007), the Institute has been granted the status of an institution of national importance w.e.f. 15.08.2007.

Faculty Development Programme (Online Mode)

On

Smart and Sustainable Product Design: A Multiphysics Perspective with Intelligent Material and Sensor Technologies

This Faculty Development Programme focuses on smart and sustainable product design using multiphysics approaches, intelligent materials, and sensor technologies. It aims to enhance participants' understanding of advanced modeling, simulation, and design techniques, enabling development of efficient, innovative, and application-oriented engineering solutions for next-generation systems in diverse technological domains.

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: July 06, 2026

FDP Dates: July 08 - 14, 2026

Coordinators:

**Dr. Manish Kumar Thakur, Assistant Professor,
MED, IIITDM Jabalpur**

**Dr. Deepak Punetha, Assistant Professor,
MNNIT Allahabad**

One Week Faculty Development Programme (Online Mode)

On

Smart and Sustainable Product Design: A Multiphysics Perspective with Intelligent Material and Sensor Technologies

08th July – 14th July 2026

Jointly Organized by

**Motilal Nehru National Institute of Technology
Allahabad**



and

**Electronics and ICT Academy
IIITDM Jabalpur**



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



Faculty Development Programme

On

Smart and Sustainable Product Design: A Multiphysics Perspective with Intelligent Material and Sensor Technologies

Date: July 08-14, 2026 (Online Mode)

Resource Persons

- Prof Chiranjit Sarkar- IIT Patna
- Prof Aman Khurana- IIT Indore
- Dr. Saurabh Kumar Pandey- IIT Patna
- Dr. Mandeep Singh – CDAC Mohali
- Dr. Vivek Pratap Singh – MANIT Bhopal
- Dr. Deepak Kumar- MANIT Bhopal
- Dr. Dipen Kumar Rajak- AMPRI Bhopal
- Dr. Anand Sharma- MNNIT Allahabad
- Dr. Chandra Prakash Singh-IIIT Ranchi
- Dr. Sunil Kumar Pradhan– Vellore Institute of Technology
- Dr. Raghvendra Shukla– BML Munjal
- Dr. Shrivishal Tripathi– IIIT Naya Raipur

Other experts are also from IITs, NITs, IIITs, and Industries.

Coordinators

Dr. Manish Kumar Thakur, Assistant Professor,
MED, IIITDM Jabalpur
manishthakur@iiitdmj.ac.in

Dr. Deepak Punetha, Assistant Professor, ECED,
MNNIT Allahabad
deepakpunetha@mnnit.ac.in

Course Contents

- Smart & Sustainable Design Basics
- Multiphysics Modeling
- Intelligent Materials
- Sensor Technologies
- Design Optimization & Fabrication Techniques
- Energy-Efficient Systems
- IoT & Smart Applications

Hands-On Sessions

- Hands-on training on multiphysics simulation tools
- Practical session on sensor design and fabrication techniques
- Data acquisition, signal processing, and analysis exercises
- Device characterization and performance evaluation methods
- Circuit design and integration for sensor systems
- Implementation of IoT-based smart sensing applications
- Case study-based product design and optimization exercises
- Experimental demonstration of sustainable and intelligent systems

Programme Features

- FDP includes 7-day training (6 hours per day) by renowned experts from India. 40 Hours of Lecture and Hands-on sessions including Interactive Query Sessions.
- Soft copy of study material, Training PPTs, recorded session & Project code.
- 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/uiML3E3cd1PsAUK8A>

- Last Date for Registration: **July 06, 2026**
- Registration fee is non-refundable

Online Payment Details

- **Registration fee:** Rs 500/- INR
- **Registration fee to be paid to:**

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

- **UPI ID:** iiitdmj@indianbk
- **QR Code :**



Contact us:

Mr. Durgesh Kushwaha 7898670354

Email: academy@iiitdmj.ac.in, eict@iiitdmj.ac.in