Electronics & ICT Academy at PDPM IIITDM Jabalpur

The MeitY, Govt of India, instituted Electronics and ICT Academies in the year 2015. In the 2nd 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, the corporate sector, and researchers.

Indian Institute of Information Technology Pune

Indian Institute of Information Technology, Pune (IIIT Pune) is an Institute of National Importance established in 2016 under the MoE, Government of India. The institute is dedicated to quality education, research, and innovation in the field of Engineering, aiming to develop skilled professionals and researchers in emerging technologies.

Faculty Development Programme on

AI-Driven Adaptive Optical & Wireless Communication Systems

The course is designed to provide fundamental knowledge on recent advancements in AI-driven optical and wireless communication systems. The aim is to train participants to apply AI and machine learning techniques for the design, analysis, and optimization of OWC and VLC systems using tools such as Python and MATLAB.

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 Registration: 03rd June 2026
FDP Dates: 5th -12th June 2026 **(Online)**

Coordinators:

Dr. Satish Kumar Tiwari
PDPM IIITDM Jabalpur

Dr. Dheeraj Dubey
IIIT Pune

Contact us:

Mr. Durgesh Kushwaha
Ph: +91 7898670354
Email: academy@iiitdmj.ac.in, eict@iiitdmj.ac.in

Faculty Development Programme on

AI-Driven Adaptive Optical & Wireless Communication Systems

Jointly Organized by

Electronics and ICT Academy IIITDM Jabalpur

and

Indian Institute of Information Technology Pune

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

Digital India
Power To Empower

Faculty Development Programme

on

AI-Driven Adaptive Optical & Wireless Communication Systems

5th -12th June 2026 (Online)

Resource Persons

- Prof. Rajeev Tripathi, MNNIT Allahabad
- Prof. Y. N. Singh, IIT Kanpur
- Prof. Y. K. Prajapati, MNNIT Allahabad
- Prof. Chiranjeev Kumar, IIT(ISM) Dhanbad
- Dr. Jahnvi Tiwari, IIIT Raichur
- Dr. Priyanka Singh, IISER Kolkata
- Dr. Sushant Kumar, IIIT Pune
- Dr. Sanjeev Sharma, IIIT Pune
- Dr. Radhika Gour, IIIT Allahabad
- Dr. Raghavendra Pal, SVNIT Surat

Coordinators

Dr. Satish Kumar Tiwari, Assistant Professor
Department of Electronics and Communication Engineering,
PDPM IIITDM Jabalpur
Email: sktiwari@iiitdmj.ac.in, 8770938589

Dr. Dheeraj Dubey, Assistant Professor
Department of Electronics and Communication Engineering,
IIIT Pune
Email: dheeraj@iiitp.ac.in, 8840677530

Course Contents

- Optical Wireless and Visible Light communication.
- Artificial intelligence and Machine learning.
- Channel modelling and analysis.
- Signal processing techniques.
- Communication system design and optimization using Python and MATLAB.
- Applications of OWC and VLC in next-generation networks.

Hands-On Sessions

- Simulation of Optical and Wireless Communication (OWC) systems using MATLAB.
- Performance analysis of Visible Light Communication (VLC) systems.
- Channel modelling and BER analysis in optical wireless links.
- Implementation of ML algorithms for communication systems using Python.
- AI-based channel estimation and prediction.
- Resource allocation and optimization using ML techniques.
- Case studies on AI-enabled optical and wireless networks.

Programme Features

- Full training in AI-driven optical & wireless communication systems.
- Interaction: Experts & academicians
- Instructor-led theoretical & hands-on sessions.
- Exposure to MATLAB/Python-based system design.
- Certificate on successful completion with access to course materials.

Registration Details

- **Registration link** – Please fill out the registration using the following link: https://forms.gle/6MpDY54wsebBoLUJ7
- Registration fee: INR 500/ (Online participation)
- Last Date for Registration: **June 03, 2026**

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:**