Online Faculty Development Programme on
Human-Robot Interaction and Assistive Technologies

June 09 - 16, 2025, 10:00 AM to 06:00 PM

Jointly organized by Electronics and ICT Academies
Established by the Ministry of Electronics and Information Technology, Govt. of India

IIITDM Jabalpur	IIT Guwahati	IIT Kanpur	IIT Roorkee	MNIT Jaipur	NIT Patna	NIT Warangal

Patron, EICT Academy (Phase II) &
Director PDPM IIITDM Jabalpur
Prof. Bhartendu K. Singh

Chief Investigator
Prof. Aparajita Ojha,
E&ICT Academy, and Professor
PDPM IIITDM Jabalpur

Principal Coordinator
Prof. Vijay Kumar Gupta,
Email: vkgupta@iiitdmj.ac.in
Mobile: 91-9425163037
PDPM IIITDM Jabalpur

Joint Principal Coordinator
Prof. Tanuja Sheorey
PDPM IIITDM Jabalpur
Email: tanush@iiitdmj.ac.in
Phone: +91-761-2794412

Objective (Electronics & ICT Academy-Phase II)
1. To conduct specialized FDPs for faculty/mentor training in line with the vision of MeitY by promoting emerging areas of technology and other high-priority areas that are pillars of both the "Make in India" and the "Digital India" programs.
2. To promote synergy and collaboration with industry, academia, universities and other institutions of learning, especially in emerging technology areas.
3. To support the National Policy on Electronics 2019 (NPE 2019) which envisions positioning India as a global hub for ESDM sector, including MeitY Schemes/policies such as Programme for Semiconductors and Display Fab Ecosystem; India AI; National Programme on AI, Production Linked Incentive Scheme for IT Hardware & Large-Scale Electronics Manufacturing; EMC; SPECS; Chips to System (C2S); etc.
4. To promote standardization of FDPs through Joint Faculty Development Programmes.
5. To support the vision of the National Education Policy (NEP 2020), which mandates that Indian educators go through at least 50 hours in professional development programmes per year.
6. To design, develop & deliver specialized FDPs on emerging technologies/ niche areas / specialized modules for specific research areas for Faculty in Higher Education Institutions (HEI), besides FDPs on multi-disciplinary areas connected with ICT tools and technologies and other digital hybrid domains, covering a wide spectrum of Engineering. and non-engineering colleges, polytechnics, ITIs, and PGT educators.

An intensive **40 Hour** training programme is being organized for faculty from all colleges, universities, and technical and professional institutes. Students, fresh graduates, researchers, and industry personnel working in allied disciplines can also attend. The course is designed to provide participants with in-depth knowledge of emerging techniques and methodologies in human-robot interaction. It aims to equip educators and researchers with basic knowledge to understand the basic and advanced principles of Human-Robot interaction and Assistive Technologies. Hands-on sessions and demos are planned towards advanced learning.The course will be delivered in online mode.

Resource Persons
- **Prof. S.K. Saha, IIT Delhi**
- **Prof. S.M. Hazarika, IIT Guwahati**
- **Prof. Vineet Vashista, IIT Gandhinagar**
- **Dr. Ekta Singla, IIT Ropar**
- **Dr. Atul Thakur, IIT Patna**
- **Dr. Arun Dayal, IIT (ISM) Dhanbad**
- **Prof. Aparajita Ojha, PDPM IIITDM Jabalpur**
- **Prof. Tanuja Sheorey, PDPM IIITDM Jabalpur**
- **Prof. Vijay Kumar Gupta, PDPM IIITDM Jabalpur**
- **Dr. Amit Kumar, IIIT Kota**
- **Dr. Neeraj Goswami, Banasthali Vidyapith Jaipur**
- **Dr. Akshay Pandey, PDPM IIITDM Jabalpur**

Programme Modules:

Module 1: Introduction and Fundamentals – Introduction to Robotics, Human Robot Interaction, and Assistive Technologies
Module 2: Review of Robotics Fundamentals
Module 3: Human Robot Interactions – Cobots and Social Robots
Module 4: Assistive Technologies – Human Anatomy, Assistive Technology for Lower and Upper Body Impairment, Assistive technologies for rehabilitation
Module 5: Sensing and Perceptions – Computer vision in HRI, Gesture and Speech Recognition, EMG and EEG, AI and ML
Module 6: Hands on and demo sessions with case studies

Registration Link: https://forms.gle/rBsTAoZtqAyHC1ov5

Beneficiary Name -PDPM IIITDM Jabalpur
Bank Name -   INDIAN BANK
A/C No. - 50018692852
IFSC Code - IDIB000M694
Last Date for Registration: June 07, 2025

PDPM IIITDM JABALPUR
SCAN & PAY
UPI ID : iiitdmj@indianbk

Certification Fee: Academic (Faculty / Students): ₹ 500/-
Industry Professionals / Others: ₹ 1500/-
Participants outside India: **USD 100/-**

Contact for queries: Mr. Durgesh Kushwaha 789 867 0354
academy@iiitdmj.ac.in, eict@iiitdmj.ac.in