

Joint Faculty Development Programme
Electric Vehicles Technology

June 9 - June 16, 2025

In association with



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

IIT Roorkee



IIITDM Jabalpur



IIT Guwahati



MNIT Jaipur



NIT Patna



NIT Warangal



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.

Joint -Principal Coordinator

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Principal Coordinator

Prof. Sanjeev Manhas,
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An intensive **40 Hour** training programme is being organized for faculty and doctoral students of various domains, including engineering, science, management and finance. It is also open to working professionals from industry/R&D organizations.

Resource Persons

- Prof. Mukesh Kumar Pathak, IIT Roorkee
- Prof. Apurv Kumar Yadav, IIT Roorkee
- Prof. Siba K Patro, IIT Roorkee
- Prof. Ashish Kothari, IIT Roorkee
- Prof. Soham Chakrabarty, IIT Roorkee
- Expert from MathWorks

Programme Objectives:

- To provide in-depth knowledge of the architecture and working of EVs.
- To introduce various battery technologies and their integration into EV systems.
- To familiarize participants with electric propulsion systems and control strategies.
- To explore charging technologies, infrastructure, and standardization.
- To understand the role of electronics, embedded systems, and software in EVs.
- To examine the environmental and economic aspects of EV deployment.
- To enable participants to design, simulate, and analyze EV systems using modern tools.

Focus Areas:

- Fundamentals of electric vehicle architecture and components.
- Battery technologies, energy storage systems, and Battery Management Systems.
- Electric motors, power electronics, and drive systems used in EVs.
- Charging infrastructure, standards, and grid integration.
- Vehicle dynamics, control systems, and thermal management.
- Simulation tools and hands-on labs for EV system modeling and testing.

Registration Link: <https://forms.gle/8QXUTnPgRW4hyruW9>

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

Register Before: June 7, 2025

Certification Fee: Academic (Faculty / Students): ₹ 500/-
Industry Professionals / Others: ₹ 1000/-



Contact for queries: Mr. Durgesh Kushwaha 789 867 0354
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