

**Five Days Online Faculty
Development Program (e-FDP)
on**

**Frontiers of AI and IoT: Applications
of Emerging Technologies in
Electrical Engineering**

16th to 20th February 2026
National Institute of Technology, Hamirpur



Coordinators

Dr. Katam Nishanth & Dr. Pankaj Kumar Mishra

Convener

Dr. Ram Niwash Mahia

Organized by



**Department of Electrical Engineering
National Institute of Technology Hamirpur,
Himachal Pradesh**

About the Institute

National Institute of Technology Hamirpur is one of the thirty-one NITs of the country, which came into existence on 7th August 1986 as Regional Engineering College, a joint and cooperative enterprise of the Govt. of India and Govt. of Himachal Pradesh. On 26th June 2002, REC Hamirpur was awarded the status of Deemed University and upgraded to National Institute of Technology. The institute offers Bachelor, Master and Doctoral programmes in Engineering, Sciences, Architecture, Management and Humanities. Various programmes serve the purpose of building a comprehensive foundation of knowledge and of enhancing confidence, creativity and innovation in its students.

About the Department

The Electrical Engineering Department, established in the year 1986, is one of the oldest departments of the National Institute of Technology Hamirpur. The department has been imparting quality education at the undergraduate and postgraduate levels. The faculty members have been active in teaching and research activities. The course curriculum is being revised from time to time so as to keep students abreast of the latest emerging technologies. The department is also equipped with the latest experimental and computational facilities for taking up R&D and consultancy activities in different areas of electrical engineering.

Committee

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Director, NIT Hamirpur (H.P.)

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About the e-FDP

The field of Electrical Engineering is experiencing a paradigm shift, propelled by the dual engines of Artificial Intelligence (AI) and the Internet of Things (IoT). The convergence of ubiquitous sensing, intelligent data analytics, and autonomous control is transforming static infrastructure into adaptive, self-optimizing systems. This evolution—spanning smart grids, predictive maintenance, autonomous control, and intelligent energy management—promises unparalleled gains in efficiency, reliability, and sustainability, which demands new expertise in data fusion, real-time decision-making, and secure cyber-physical integration, presenting both a challenge and an opportunity for the academic community.

This Faculty Development Program is designed to provide a comprehensive and in-depth exploration of the transformative role of AI and IoT in modern Electrical Engineering. The program offers a holistic view of this interdisciplinary frontier, bridging core electrical concepts with advanced domains in machine learning, embedded systems, and network security. Its primary objective is to empower faculty members and researchers with the advanced knowledge required to lead in this new era. The program will serve as a vital platform for collaboration and knowledge exchange, effectively narrowing the gap between theory and industrial application.

Topics to be covered

- ❖ Foundations of AI & Machine Learning for Engineering Systems
- ❖ Federated Intelligence for Distributed Electrical Systems
- ❖ AI-Driven Predictive Maintenance and Fault Diagnosis in Power Apparatus
- ❖ Smart Grid 2.0: Real-Time Monitoring, Optimization with IoT
- ❖ AI in Power Electronics Control for Renewable Energy Integration
- ❖ Cyber-Physical Security for IoT-Enabled Critical Infrastructure

Eminent Speakers

- ❖ Prof. Bhim Singh, IIT Delhi
- ❖ Prof. Sukumar Mishra, IIT Delhi
- ❖ Prof. D. P. Acharya, NIT Rourkela
- ❖ Prof. Vijander Singh, NSUT Delhi
- ❖ Dr. M. H. Kolekar, IIT Patna
- ❖ Dr. Srikanth Allamsetty, NIT Andhra Pradesh
- ❖ Dr. Baseem Khan, Hawassa University, Ethiopia
- ❖ Dr. Santhakumar Mohan, IIT Palakkad
- ❖ Dr. Arun K. Sharma, IIT Ropar
- ❖ Dr. Dr. O. P. Rahi, NIT Hamirpur
- ❖ Dr. Ram Niwash Mahia, NIT Hamirpur
- ❖ Dr. Katam Nishanth, NIT Hamirpur
- ❖ Dr. Pankaj Kumar Mishra, NIT Hamirpur

Important Dates

Deadline for Online Registration:

15-02-2026; 5 PM

Confirmation by e-mail: 15-02-2026

Duration of e-FDP: 16-02-2026 to 20-02-2026

Eligibility

This program is open to faculty members, research scholars, PG & UG students, and industrial personnel.

e-Registration and Payment Guidelines

Registration Fee (Non-Refundable) (Through SBI Collect):

- **Rs. 500 for Faculty / Academia / R&D Labs**
- **Rs. 200 for Students (PG, UG, PhD)**
- **Rs. 1000 for Industry Personnel**

1. Go to www.onlinesbi.sbi and select option **State Bank Collect** [State Bank Collect \(onlinesbi.sbi\)](http://onlinesbi.sbi)
2. Select the category by clicking on **Educational Institutions**. You will be directed to the **Select Payee** window.
3. Select state as **Himachal Pradesh**, search **NIT HAMIRPUR**, and click on the search result.
4. You will be redirected to enter payment details. Select payment category as **Workshop STC FDP Conference**. Fill in the required details to proceed further and complete the payment.

E-registration link (Google Form):

<https://forms.gle/hQqFkA2jrpuwfnYD8>

e-Certification

E-certificates will be given to participants with at least 75% attendance.

Contact Details

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