

**THAPAR INSTITUTE OF
ENGINEERING AND TECHNOLOGY,
PATIALA**

Thapar Institute of Engineering and Technology (TIET), Patiala, formerly known as Thapar University, is one of India’s premier institutions of higher education, established in 1956 by the visionary industrialist Karam Chand Thapar. Spread across a 250-acre green campus, TIET is a deemed-to-be university with NAAC A+ accreditation, recognized by UGC and AICTE. The institute offers a wide spectrum of undergraduate, postgraduate, and doctoral programs in Engineering, Science, Management, Humanities, and Liberal Arts. Ranked consistently among the Top 30 universities in India (NIRF 2024) and placed in the global QS and Times Higher Education rankings, TIET is known for its strong emphasis on research, innovation, and industry collaboration. With state-of-the-art infrastructure, world-class laboratories, an internationally acclaimed library, and vibrant student life, TIET nurtures academic excellence while fostering creativity and leadership. Its strong placement record, with leading national and global recruiters, further strengthens its reputation as a hub of knowledge and professional growth.

**ELECTRICAL AND
INSTRUMENTATION ENGINEERING
DEPARTMENT**

The Electrical and Instrumentation Engineering Department (EIED) at Thapar Institute of Engineering & Technology, Patiala, is one of the oldest and premier academic unit committed to excellence in teaching, research, and innovation. The department offers undergraduate, postgraduate, and doctoral programs designed to equip students with strong theoretical foundation and practical skills in the areas of Electrical Engineering, Instrumentation, Control, and Automation.

With a team of highly qualified and experienced faculty, the department emphasizes an industry-oriented curriculum, cutting-edge research, and hands-on training through state-of-the-art laboratories. The programs are continuously updated to align with emerging technologies such as renewable energy systems, smart grids, robotics, biomedical instrumentation, artificial intelligence (AI), Internet of Things (IoT), and advanced control strategies.

Laboratory infrastructure: fully equipped labs in electrical machines, power systems, instrumentation & measurement, control & automation, embedded systems, biomedical engineering.

Access to Software: MATLAB, PSCAD, ETAP, DigSILENT and LABVIEW.

Industry Connect: active collaborations with leading industries and research organizations for internships, consultancy, sponsored projects, and student placements.

Contact Details

		
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Convener	Coordinator	Co-coordinator
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Sponsored by:
**All India Council for Technical
Education (AICTE), New Delhi**



**Faculty Development Program
ON
Operation and Control of
Power Systems in India**

(October 13-18, 2025)

Organized by:

**THAPAR INSTITUTE OF
ENGINEERING AND TECHNOLOGY,
PATIALA**



THAPAR INSTITUTE
OF ENGINEERING & TECHNOLOGY
(Deemed to be University)

OBJECTIVE

The structure of power sector all-round the world has undergone a change from regulated to deregulated environment to enhance the technical efficiency and financial viability through private sector participation. Power sector reforms in India were introduced in the early 1990s to improve performance of Electric Supply Industry (ESI). Moreover, the thrust on renewable energy sources based technologies has introduced many generation and transmission side challenges. Due to these factors, the various aspects of power system planning like operation scheduling and control, unit commitment, load and price forecasting, are undergoing a major change and professionals in the area of power systems are facing new challenges to secure economical and secure power system operation.

Keeping above aspects in consideration, the present faculty development program (FDP) aims to enhance the knowledge of the participants regarding the modern trends and challenges in the field of power system operation and control. The objectives can be listed as:

- To provide an in-depth understanding of the challenges and opportunities in operating and controlling modern Indian power systems.
- To explore advanced methods for renewable energy integration, grid stability, and frequency regulation.
- To familiarize participants with emerging technologies such as smart grids, load power forecasting and renewable energy forecasting.
- To understand about Automatic Generation Control (AGC) implementation in Indian utilities and Optimal Power Flow using GAMS

TARGETED PARTICIPANTS

The program is open for AICTE approved institution faculty, research scholars, PhD students and industry professionals.

RESOURCE PERSONS

❖ Sh. Arun Mishra Ex-Director, UPSLDC, Ex - ED POWERGRID, Ex Vice Chair ISGAN
❖ Dr. S. C. Srivastava Professor (EED) Former Deputy Director, IIT Kanpur
❖ Dr. Bikash Pal Professor of Power Systems, Department of Electrical and Electronics Engineering – Imperial College London, UK
❖ Dr. G.N. Pillai Professor (EED) IIT Roorkee
❖ Dr. Anurag Srivastava Department of Computer Science and Electrical Engineering, West Virginia University, USA
❖ Dr. Ashwani Kumar Professor (EED), National Institute of Technology, Kurukshetra
❖ Dr. Anamika Yadav Professor and Head (EED), National Institute of Technology, Raipur
❖ Dr. Dheeraj Joshi Professor (EED), Delhi Technological University, Delhi
❖ Dr. Vikas Pratap Singh Senior Power Forecasting Specialist, EWEC (Emirates Water and Electricity Company), United Arab Emirates
❖ Dr. Phanisankar Chilukuri Chief Manager at Grid Controller of India Limited (POSCO), GRID-INDIA, New Delhi
❖ Dr. Vishal Gaur Department of Electrical Engineering, Assistant Professor, MNIT Allahabad
❖ Dr. Hemant Saxena Member Technical at dSPACE India Solutions
❖ Mr. Sagar Indalkar, Simulation Engineer, Nayak Power Systems Private Limited

PATRONS

Dr. Padma Kumar Nair Vice Chancellor TIET	Dr. Ajay Batish Pro-Vice-Chancellor TIET
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REGISTRATION FEE AND TIMING

No charge for registration, course and certification. The FDP has three sessions daily with each session of duration one hour and 15 minutes

CERTIFICATION

A test will be conducted by the coordinator at the end of the program. The certificate shall be issued to those participants who have attended the program with 80% attendance and scored minimum 70% marks in the test.

HOW TO APPLY

Interested candidates are required to apply using the link given below.

<https://atalacademy.aicte.gov.in/login>

Login to the AICTE portal, click the FDP tab, select ATAL online and month as October. Search for the FDP titled “Operation and Control of Power Systems in India” and register for the FDP.

Application No: **1749552735**

Mode of FDP: **Online**

IMPORTANT DATES

Last Date to Apply: 10th October, 2025

Intimation of Selection: 12th October, 2025

Confirmation of Participation: 12th October, 2025

CONTACTS

Please contact deba.dash@thapar.edu and skaggarwal@thapar.edu for any FDP related query.