

ACHARYA INSTITUTE OF TECHNOLOGY PARCEL NO.



DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

5 DAY ONLINE FACULTY DEVELOPMENT PROGRAM

02nd to 06th August 2025 | 10:30 am to 05:00 pm Online Webex



About the Program

The theme, "Recent Advances in Smart Grid and Renewable Energy Integration," focuses on the evolving landscape of power systems driven by the rapid adoption of renewable energy sources and intelligent grid technologies. As the world transitions toward sustainable and efficient energy solutions, smart grids play a pivotal role in integrating renewable resources, ensuring grid stability, and optimizing energy usage. This Faculty Development Program aims to provide in-depth knowledge on cutting-edge developments in areas such as smart metering, energy storage systems, demand response, grid automation, and real-time data analytics. The program also explores the challenges and opportunities associated with integrating solar, wind, and other renewables into existing grid infrastructures. By bridging academic research with industry applications, the theme emphasizes innovation, interdisciplinary collaboration, and future-ready strategies to enable a resilient and sustainable energy future.

Objectives of the Program

- · To provide knowledge on Smart Grid architecture and key features.
- To introduce communication technologies used in Smart Grids.
- To create awareness about cybersecurity in energy systems.
- To explore AI/ML applications and renewable energy integration.

Expected Outcomes of the Program

- Participants will understand core concepts of Smart Grid technologies.
- Faculty will be able to update academic content with current trends.
- Participants will gain skills to support student projects and research.
- Institutions will benefit through improved teaching and technical exposure.

Target Audience: Faculty members and postgraduate students from the departments of Electrical and Electronics Engineering (EEE), Artificial Intelligence & Machine Learning (AI & ML), Electronics and Communication Engineering (E&CE) across various engineering colleges.

Type of program: FDP (Online) Venue: Online Webex

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Committee Members



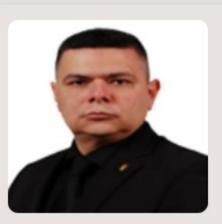
Resource Persons Details



Dr. Mohammad Rihan **Designation**: Director General, National Institute of Solar Energy (An autonomous institution of Ministry of New and Renewable Energy, Govt. of India)



Dr. Mythili Chaganti Designation: Vice President, Chapters & Membership IEEE PES, CenterPoint Energy Houston, TX USA



Prof. Francisco Gonzalez-Longatt Designation: Professor in University of South-Eastern Norway



Prof. Ersan Kabalcı Designation: Professor, Nevsehir Haci Bektas Veli University, Turkey



Dr. Anand. R Designation: Research Centre for Renewable on Microgrids, Zhejiang University- China



Prof. Sanjeevikumar Padmanaban Designation: Professor in Power Electronics, University of South-Eastern Norway



Prof. Ramesh Bansal Designation: Professor, University of Sharjah-UAE



Dr. Hady Habib Designation: Associate Professor, Heliopolis University-Egypt



Dr. Akansha Shukla Designation: Sardar Vallabhbhai National Institute of Technology, Surat



Dr. Tanmoy Roy Choudhury Designation: Assistant Professor, NIT Rourkela

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