

Department Vision

To Transform the Students into Globally competent Electrical Engineers, Researchers and Entrepreneurs, and thereby contributing value to the Technological needs of the Society

Department Mission

- To equip the students with advanced knowledge and technological skills to cater to the needs of Industries.
- To enable students to create and develop innovative engineering applications for the benefit of Marginalized communities.
- To enable students to become responsible citizens with a willingness to make a positive difference to society through their education.

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SDGs relevant to FDP



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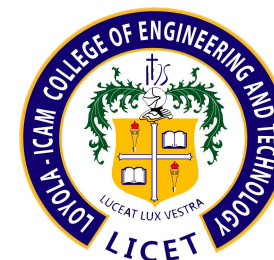
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(Autonomous)

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About LICET

LICET is born out of the global vision of Loyola College Society (LCS) and ICAM-Group. The core philosophy of ICAM and LCS is to facilitate a conducive atmosphere to students who form themselves into Competent, Creative, Committed, and Compassionate professionals. LICET aims at training young men and women of quality, capable of leading the society in all walks of life who would serve their fellow human beings in justice, truth, love, and compassion. The training will bring the desired change in people's lives, particularly the poorer and marginalized sections of society and Dalits. Further, it will foster an atmosphere of intellectual vigour and moral rectitude. Through institution-industry collaboration, Currently, LICET offers six Undergraduate programmes in AI&DS, CSE, ECE, EEE, IT and Mechanical Engineering.

About the Department

The Department of Electrical and Electronics Engineering offers a B.E. degree program in Electrical and Electronics Engineering. The Department has dedicated faculty members and 85% of them are doctorates. The department is equipped with state-of-the-art laboratories like the Power Electronics lab, Renewable Energy Conversion Lab, Control and Instrumentation Lab, and Power System Simulation Lab with licensed software like MATLAB Campus Connect, Mipower, etc. The department has recently established a Centre of Excellence (CoE) in e-mobility. The department has publications in refereed impact factor journals and in International /National conference proceedings indexed in SCOPUS and Web of Science. The department has signed MoU with industries to provide hands-on experience to students through internship and in-plant training. The Department has organized National and International Conferences, Faculty Development Programs sponsored by Anna University, Industry-Academia Conclave, Short-term Training programs sponsored by AICTE, ISTE, and NITTTR, and many Workshops. The department is recognized as a Research Department by Centre for Research (CFR), Anna University, Chennai.

Objectives of the FDP

This Faculty Development program aims to give a comprehensive understanding of the recent advancements in the field of energy and e-mobility. The program is designed to explore critical domains such as Wind and Solar Energy systems, Solar integrated EV charging infrastructure and Smart grid ecosystems. It also focuses on application of Machine Learning (ML) and Deep Learning (DL) techniques in the key areas of Smart grid infrastructure. In addition, the FDP spans over contemporary topics like cybersecurity in electric vehicles, hardware-in-loop testing and motor control strategies to enhance understanding of EV system design and safety. Sessions on NEP 2020 implementation and Modern Pedagogical approaches with technology integration are included to strengthen teaching methodologies among faculty members. An industrial visit is planned to bridge the gap between theoretical concepts and industrial practices.

Outcome of the FDP

Upon completion of the FDP, participants will be able to develop a strong interdisciplinary understanding of renewable energy systems, electric vehicles and smart grid technologies. They will become capable of analyzing wind and solar energy systems, designing solar power plants and understanding grid-connected configurations. Participants will also gain the ability to apply ML and DL techniques in smart grid applications such as load forecasting, energy optimization and predictive maintenance.

They will be able to evaluate and implement solar EV charging station models and understand key aspects of EV cybersecurity, motor control and hardware-in-loop testing. The exposure gained through the industrial visit will enable them to relate academic concepts to practical applications. Furthermore, participants will be equipped to adopt innovative pedagogical approaches and effectively implement NEP 2020 guidelines in their institutions. Overall, they will become competent in teaching, research and consultancy in the domains of smart energy systems and sustainable technologies.

Topics to be covered

- Grid interrogation of WECS
- Solar EV Charging Stations
- National Education Policy (NEP) 2020 Implementation
- Scope of ML & DL in Smart Grid ecosystem
- Industrial Visit to Solar plant
- Pedagogical approaches including technology integration
- Cybersecurity in Electric Vehicles
- Design of Solar plant and Grid connected systems
- Hardware in Loop Testing & Electric Vehicles Motor Control

Eligibility

Faculty members, Research scholars and PG Scholars of the AICTE approved institutions and Industry Personnel are eligible to apply.

Guidelines

- No participant fees will be collected
- Sessions will be conducted during the evening time (Refer the schedule given with this brochure).
- Eligible participants will be selected based on first come first serve basis and will be intimated by e-mail.
- Coordinators decision will be final regarding the selection of participants.
- The certificates shall be issued to those participants who are registered on ATAL portal www.aicte-india.org/atal and attend the program with minimum 80% attendance and score minimum 70% marks in the assessment.

Registration

Registration is mandatory for attending the FDP. The participants are requested to register in the ATAL portal.

<https://atalacademy.aicte-india.org/login>

Resource Persons

The sessions will be handled by experts from academia, research organizations and industry in the subject area.