



AICTE Training and Learning (ATAL)

Academy Sponsored One Week

Faculty Development Programme (FDP)

On

“Electrifying the Future: A Comprehensive FDP on Electric Vehicles”

January 8-13, 2024

Organized by

Department of Electrical Engineering

COEP Technological University

(COEP Tech)

A Unitary Public University of Govt. of Maharashtra

(Formerly College of Engineering Pune)

Pune 411 005,

Maharashtra

INDIA

AICTE ATAL Academy:

All India Council of Technical Education (AICTE) through its newly established AICTE Training and Learning (ATAL) Academy have started unique faculty development programs for various thrust areas of contemporary technology. ATAL Academy successfully conducted 5 days 1000 online Faculty Development Programs (FDPs) in nine thrust areas for the academic year 2020-21 and 1,00,000+ faculty members, research scholars and post graduate students participated. The FDPs were very well received throughout the country with participation from various premiere institutions, R& D organization and industries. In the year 2023-24, 450 FDPs have been approved in the emerging areas.

About COEP Tech :

COEP Tech formerly College of Engineering Pune (COEP), chartered in 1854 is a nationally respected leader in technical education. The institute has rich history and dedication to the pursuit of excellence. COEP Tech offers a unique learning experience across a spectrum of academic and social experiences. The hallmark of COEP Tech education is its strong and widespread Alumni network, support of the industry and the Camaraderie that the institute shares with several foreign universities.

The institute is consistently ranked amongst the top 100 technical institutions in India. In 2003, the college was awarded autonomous status, thus giving it the freedom to set its own curricula and manage its own finances. Post autonomy the institute has demonstrably progressed in leaps and bounds, in terms of its academics, research, outreach, networking, and rankings. Known for its intense and persistent bondage with industry and galaxy of alumni, the campus, in recent years, has established technology-specific schools/ Centers of Excellence and minimum two state-of-the-art laboratories at every academic department, all from magnanimous contributions of industry/corporate and alumni. The institute has around 3500 students on roll pursuing undergraduate, postgraduate, and doctoral programs in various disciplines of engineering. The hallmark of COEP Tech education is its strong and widespread alumni.



About Electrical Engineering Department

The Electrical Engineering Department (EED) was established in 1932 with UG program. It started its PG program in 1952. It currently hosts a UG, three PG, and Ph.D. programs. Over the past 91 years, this Department has produced electrical engineers who have aided in national and worldwide industrial growth.



The Department hosts a diverse and vibrant research portfolio in the areas such as Green Energy, Real-Time Robust Control of Actuated Systems, Optimal Control of Power Flow, UPFC, Efficient PM machines, Fuzzy Controllers, Power Converters and Drives, Power quality analysis, and many more. Both graduate and undergraduate students benefit significantly from the research activities of our professors, greatly enhancing their educational experience.

Faculty members are engaged in industrial consultancy with companies like Emerson, L&T, Bosch, etc. Special training programs for industry persons are organized by the department. The department hosts a Center of Excellence in Smart Renewable Energy Systems and has industry supported Hella Frugal Innovation Laboratory. The department has also established the K. R. Natu School of Electrical Engineering through its alumnus support.

The indigenously developed laboratory setups are attracting the attention of elite institutes including the IITs. Some of these setups are a first-of-its-kind in the country.

About FDP

In this Faculty Development Program (FDP), we delve into the rapidly evolving world of electric vehicles (EVs) and explore the critical role they play in shaping the future of transportation. As the automotive industry undergoes a transformative shift towards sustainable and eco-friendly solutions, understanding the fundamentals, technology, infrastructure, and policy aspects of electric vehicles is essential for educators, researchers, and professionals alike. Our esteemed panel of experts and guest speakers from industry and academia will share their knowledge and experiences providing the participants with a comprehensive understanding of the electric vehicle landscape. Whether you're an educator looking to incorporate EV topics into your curriculum, a researcher exploring the latest EV advancements, or a professional interested in the EV industry's future, this FDP will equip the participants with the relevant knowledge and tools.

Course Contents

- Recent development and challenges in automotive Product Development
- Charging Infrastructure.
- Challenges and Opportunities in Indigenization of E-mobility from Indian Perspective.
- Battery Management System and battery chemistry
- Evolution and Architecture of Hybridization in EV.
- Embedded Controllers for EV.
- Communication Protocols ,Sensors and motors used in EV.
- Industry visit
- Hands on sessions in Scilab, MATLAB etc.

Resource Persons

Dr.A.K.Prakash, VP RnD, Varroc India Ltd.

Dr. Sushil Ramdasi, Deputy Director, ARAI

Dr.Manoj Rathi, Director at Research Center for Sustainable Solutions Pvt. Ltd. Nasik

Mr.Ameya Gambhir, General Manager Spark Minda Technology Centre.

Mr.Abhishek Mandhana, Lead Advance engineering Technologies, Hella India

Mr.Aniruddha Barve, Chief, Program Engineer, ER&D, TTL

Dr.R.T.Ugale , Head, Elect Dept., COEP Tech

Dr.Archana Thosar, Prof. EED, COEP Tech

Dr.Radhika Joshi, Asso. Prof. EnTc Dept, COEP Tech

Registration Guidelines

- The registration is open to the faculty members of AICTE approved institutions, research scholars, PG scholars, participants from Government and Industry institutions.
- Participants interested to attend the FDP are required to register themselves on the webpage of ATAL Academy.
- Seats are limited and selection will be based on first come first serve basis.
- The certificates will 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 60% marks in the test.
- Registration Fees: Nil
- All the participants are requested to register using following link:
<http://atalacademy.aicte-india.org/login>

Patron

Dr. Vinod M. Mohitkar
(Director, Technical Education
Maharashtra)

Dr Pramod Chaudhari
Chairman, BoG, COEP TU

Dr. Sudhir Agashe
Vice Chancellor, COEP TU

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Organizing Committee

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Dr. V. N. Pande

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Dr. Mrs. S. V. Jadhav
Dr. Mrs. A. V. Tare
Mrs. V. B. Bhole

Mrs. Meera Sharma
Mr. Swapnil Mahajan
Mr. Saurabh Chandra