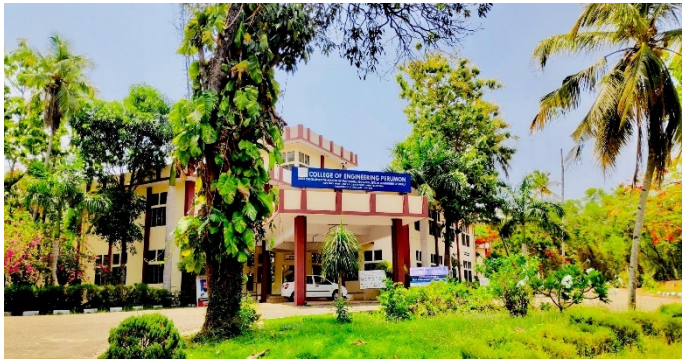

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ABOUT THE INSTITUTION

College of Engineering Perumon was founded in the year 2000 by the Co-operative Academy of Professional Education (CAPE), which was established by the Government of Kerala. The college offers four undergraduate programs (ME, ECE, EEE & CSE) and M. Tech course (Computer and Information Science) affiliated to APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY (KTU) and approved by All India Council for Technical Education (AICTE).

ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering (NBA accredited during 2019-22) was established in the year 2000 offering four-year B. Tech. degree program in Electrical and Electronics Engineering. It is provided with good infrastructural facilities like well equipped laboratories, library, well qualified and experienced faculties and technically sounded supporting staffs.

ORGANISING COMMITTEE

Patron
Dr.R Sasikumar
(Director CAPE)

Chairperson
Dr. Z. A. Zoya
(Principal)

Convenor
Dr. Bindu S J(Associate Professor & HOD)

Co Ordinator
Mrs. Jasmi M S (Assistant Professor)
Mob: 9497361252

Mrs. Sofiya A (Assistant Professor)
Mob: +919745506884

HOW TO APPLY

The applicants should fill the google registration form link provided below
https://forms.gle/5hue7A4uuhKEQQN88

Any queries can be mailed to
sofiya@perumonec.ac.in

REGISTRATION FEE

No registration fee is charged from the participants

AICTE Training And Learning (ATAL) Online Faculty Development Program on "Research Trends in Design and Control of Electric Vehicles"

(17th - 21st January 2022)

Organized by

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING
(NBA Accredited 2018-2022)

College of Engineering PERUMON

COLLEGE OF ENGINEERING PERUMON

(Under CAPE, established by Govt. of Kerala)

Perinad P.O. Kollam. Kerala. Pin 691601

www.perumonec.ac.in

AICTE Training And Learning (ATAL)

The ATAL academy was established on 24th September 2018 with the objective to plan and help in imparting quality technical education in the country, and to assist technical institutions in advancing research, innovation, and entrepreneurship through training. The Academy stresses upon empowering technical teachers and technicians using Information and Communication Technology.

The academy provides a variety of opportunities for training and exchange of experiences, such as workshops, orientation, learning communities, peer monitoring, and other FDPs.

COURSE PLATFORM

The FDP will be conducted through online mode. The details of online platform will be communicated to the selected candidates through their registered e-mail. The assessment will be done through online mode. The certificate will be awarded to those who have minimum attendance of 80% and 60% Marks in the test conducted as per the norms of ATAL scheme.

ELIGIBILITY CRITERIA

The program is open to faculty members (EEE/ECE/EIE branch) of AICTE approved engineering colleges, M. Tech. scholar's specialization in EEE and personals from reputed industries.

DATES TO REMEMBER

Last date for receipt of applications: 10/01/2022

COURSE OBJECTIVE

This course aims at giving the faculties irrespective of their trade, an insight into the basics and recent ideas of hybrid and electric vehicle and its integration into electricity microgrids. The sessions will be handled by the experts from academic and technical streams.

The course will introduce the applicants to the world of Hybrid electric vehicle, its control, design concepts and case studies.

The course also aims at giving some hands-on experience in this field.

COURSE OUTLINE

- **Smart EV's : Research Challenges and Opportunities**
- **Practical Issues and Considerations in Vehicle to Grid Configuration**
- **E-Mobility and Battery Thermal Management System**
- **Speed Range Extension Schemes for Drivers used in Electric Vehicle**
- **Fast Charging Challenges in EV Applications**
- **EMI Issues of Electric Vehicle**
- **EV Charging Topologies**
- **Power Electronic Converters for EV**
- **Sinusoidal Current Tracking of EV Chargers**
- **EV Chargers: Standards and Subsystems**
- **Hands on session (Real time simulation) on EV with V2G & G2V**

RESOURCE PERSONS

Sessions will be handled by eminent personalities from higher learning institutions and experts from industries.

AICTE Training And Learning (ATAL) Online Faculty Development Program
on
"Research Trends in Design and Control of Electric Vehicles"

Program Schedule

Date	Time Slot				
	9:15 AM to 11:15 AM	11:15 - 11:30 AM	11:30 AM to 1:30 PM	1:30 - 2:00 PM	2:00 PM to 4:00 PM
	Inauguration (9.15-9.45am)		Session – 2		Session – 3
Day - 1 17/01/2022	Session – 1 Smart EV's : Research Challenges and Opportunities Dr. Deepa.K. Assistant Professor, Amrita Vishwa Vidyapeetham, Bengaluru		Practical Issues and Considerations in Vehicle to Grid Configuration Er. Aneesh Rajendran, EMC, Trivandrum		E-Mobility and Battery Thermal Management System Dr.Dhinesh Balasubramanian, **Post Doctoral Researcher, Thailand.**
Day – 2 18/01/2022	Session – 4 Speed Range Extension Schemes for Drivers used in Electric Vehicle Dr. Rajeevan P.P. Associate Professor, IIST, Trivandrum		Session – 5 Fast Charging Challenges in EV Applications Dr. Nikhil Sasidharan, Assistant Professor, NITC		Session – 6 EMI Issues of Electric Vehicle Dr. Ashok Kumar, Assistant Professor, NIT Tiruchirappalli
Day – 3 19/01/2022	Session – 7 EV Charging Topologies Dr. Dinesh Gopinath, Associate Professor, CET	**Break**	Session – 8 Power Electronic Converters for EV Dr.Biju.K. Assistant Professor, CE Munnar	**Lunch Break**	Industry Session – 9 Introduction of Hardware-in-the-Loop Simulation Er. Ashish Ranjan Application Engineer, Typhoon HIL
Day – 4 20/01/2022	Industry Session – 10 Modeling And Simulation of EV Er. Saurav K Sahu Application Engineer, Typhoon HIL		Industry Session – 11 Modeling And Simulation of EV Er. Saurav K Sahu Application Engineer, Typhoon HIL		Industry Session – 12 Real time Simulation of EV with V2G & G2V Er. Ashish Ranjan Application Engineer, Typhoon HIL
Day - 5 21/01/2022	Session – 13 Sinusoidal Current Tracking of EV Chargers Dr. Shreelakshmi M.P., Assistant Professor, NITC		Session – 14 EV Chargers: Standards and Subsystems Er. Bhavya.Y.V, Scientist E, CDAC, Trivandrum		Test, Feedback and Valediction