Who can Attend?

This FDP is open to faculty members from different institutions, PG students, research scholars and experts from industry.

Registration Details

Registration fee: Rs. 200/-
Bank Details:
Bank Name : Indian Overseas Bank, Thalakkottukara
Acc. No. : 240301000000203
IFSC Code : IOBA0002403

Payment can be made via Google Pay to 9446723144, and the payment screenshot should be uploaded through the registration link.

SCAN ME

HOW TO APPLY?

- Participants can register for the FDP using the following link: https://forms.gle/fdcySV5pcUoPZTan6
- All sessions will be delivered via **Google Meet** platform.

ADVISORY COMMITTEE

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Six Days Online Faculty Development Programme

ADVANCED CONTROL ARCHITECTURE FOR E-MOBILITY

18th – 23rd May 2026

Organized by
Department of Electrical and Electronics Engineering
in association with IQAC, VAST

Vidya Academy of Science and Technology,
Thrissur, Kerala - 680501

ABOUT ELECTRICAL & ELECTRONICS DEPARTMENT

The Department of Electrical & Electronics started functioning from the beginning of College itself in the year 2003. The Department offers B.Tech (UG) Program in Electrical & Electronics Engineering. The Department is backed up by highly qualified and dedicated teachers. The Program prepares students for prospective careers in Energetics, Power Generation, Transmission and Distribution and in traditional industries requiring powered machinery, power electronics, automated instrumentation controls, etc.

FDP OBJECTIVES

The Six Days Faculty Development Programme on "**Advanced Control Architecture for E-Mobility**" aims to equip faculty members with comprehensive theoretical knowledge and practical insights into modern control architectures used in electric vehicles. The programme focuses on key domains such as motor control strategies, battery management systems, energy optimization techniques, and intelligent control methodologies. It is designed to enhance participants' ability to effectively deliver the Electric Vehicles (PEET522) course as per the KTU 2024 scheme, while also strengthening their capacity to bridge academic concepts with real-world EV system design, analysis, and control applications.

SCHEDULE

SESSION I [10.30 AM TO 12.30 PM]
SESSION II [01.30 PM TO 03.30 PM]

Inauguration | 10 am | 18 May 2026

Dr. Rajasree M S, Chief Executive Officer, TrEST Research Park, Dept. of Higher Education, Govt of Kerala, Former Vice Chancellor, APJ AKTU, Kerala.

Day 1: 18 May 2026

Session I - "E-Mobility – Fundamentals, Innovations and Recent Trends" by **Dr. Esther Blesso Vidhya Y**, Lead - E-Mobility Laboratories, Dept of Engineering Design, IIT Madras.

Session II - "AI driven Perception systems in Automotive" by **Mr. Ajith B**, Senior Engineer-Magna Electronics, Bangalore.

Day 2: 19 May 2026

Session I - "Emerging Trends and Future Directions in AI and IOT for EV charging Infrastructure" by **Er. Cini John**, Executive Engineer (NC) Office of Chief Engineer (REES), KSEBL.

Session II - "Energy and Mobility for Future" by **Dr. Arun Eldho Alias**, Associate Prof and HOD, Mar Baselios Institute of Technology and Science, Cochin and CEO, Renvolt Energy solutions Pvt Ltd.

Day 3: 20 May 2026

Session I - "Hybrid Power Supply" by **Dr. Shreelakshmi M. P.**, Assistant Professor, NIT Calicut.

Session II - "Droop free control for Parallel operation of DC/DC converters with circulating current minimisation in EV drive system" by Dr. Nikhil Sasidharan, Assistant Professor, NIT Calicut.

Day 4: 21 May 2026

Session I - "Architecting Efficiency: AI and ML integration in EV Grid Ecosystem" by Dr. Ani Harish, Assistant Professor, Electrical Engineering Department, Albertian Institute of Science and Technology, Kochi.

Session II - "EV Technology: Architecture and Charging Infrastructure" by **Dr. Sindhu M .R.**, Professor, Department of Electrical and Electronics Engineering, Amrita School of Engineering, Coimbatore.

Day 5: 22 May 2026

Session I - "Battery state of charge prediction using mathematical modelling and Machine Learning using MATLAB " by **Dr. Riyaz A Rahiman**, Manager Application Engineer, Mathworks Products, CoreEL Technologies, Bangalore

Session II - "Optimised operation of DAB for Battery charging Applications" by **Dr. Sandeep J**, Assistant Professor, NIT Calicut

Day 6: 23 May 2026

Session I - "Application of AI in Power converter design for EV Applications" by **Dr. Kumaravel S.,** Professor, NIT Calicut

Session II - "Field oriented control of IPMSM based EV drives" by **Er. Kannan S A**, Drive Train Architect, C-Electric, Kochi.