Short Term Training Programme on

"Advancement in Electric Vehicles and Hydrogen Fuel Cell Technology for Sustainable Mobility"
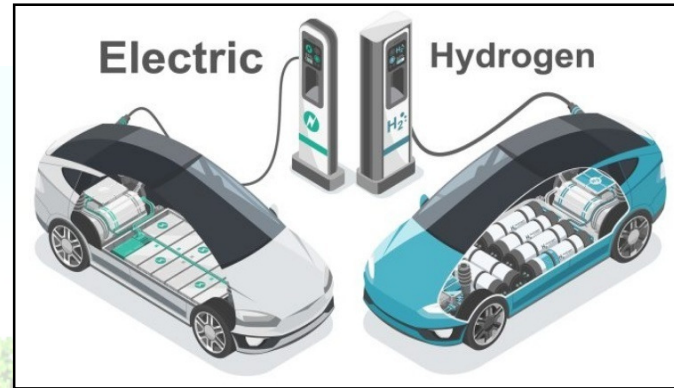
07ᵗʰ April 2025 to 9ᵗʰ April 2025
(Timings: 9.00AM to 5.00PM)

Organized by
Department of Automobile Engineering
Department Mechanical Engineering
Department of EEE
Society for Smart E-Mobility (SSEM)

Dr.Mahalingam College of Engineering and Technology,
Pollachi - 642003
Tamil Nadu, IndiaWebsite:drmcet.ac.in

ORGANIZING COMMITTEE

Convenors:
Dr.D.Shanmugam, Prof & HoD / Automobile
Dr.T.Rama Thirumurugan, Prof & HoD (I/c) / Mechanical
Dr.D.Ganesh Kumar, Prof & HoD / EEE

Co-Convenors:
Dr.UmaMaheswari, AP(SG) / EEE
Dr.T.Ramkumar, Ass.Prof / Mechanical
Mr.R.B.Rajeshkumar, AP/Automobile

Coordinators:
Dr.S.Madhusudhanan, AP (SG) / Mechanical
Mr.R.VishnuRameshkumar, AP/Automobile
Mr.S.Mahalingam, AP/Automobile
Mr.N.Dhamodharan, AP/Automobile
Mr.L.Hubert Tony Raj, AP/EEE

IMPORTANT DATES TO REMEMBER
Last date for receipt to application : 31.03.2025
Intimation of acceptance by mail   : 02.04.2025

CONTACT:

Mr.R.B.Rajeshkumar, AP/Auto
9952576107
rajeshkumarrb@drmcet.ac.in

Mr. N.Dhamodharan, AP/Auto
7708309122
dhamodharann@drmcet.ac.in

ABOUT THE INSTITUTION

Dr.Mahalingam College of Engineering and Technology (MCET) was established in the year 1998. Dr.M.Manickam with a view to commemorate the seventy fifth birthday of his beloved father Arutchelvar Dr.N.Mahalingam with a mission to impart high quality competency-based education in engineering and technology to the younger generation to acquire the required skills and abilities to face te challenging needs of the industry around the globe. MCET is a self financing, co-educational Autonomous Engineering College and it is approved by All India Council for Technical Education (AICTE), New Delhi and affiliated to Anna University, Chennai. The institution has been accredited by NAAC with A++ grade in cycle III till 2030 the highest grade and all eligible UG programmes are accredited by NBA. MCET currently offers 12 UG, 6 PG and 7 Doctoral Programmes in Engineering, Technology and Science.

ABOUT THE PROGRAMME

The Short Term Training Program, "Advancement in Electric Vehicles and Hydrogen Fuel Cell Technology for Sustainable Mobility," offers a comprehensive exploration of the latest advancements and innovations in the rapidly advancing fields of electric and hydrogen fuel cell vehicles. This program is designed to equip faculty with state-of-the-art knowledge, empowering them to effectively teach and mentor students in these essential areas of sustainable transportation. Participants will delve into developments in EV and battery technologies, charging infrastructure, fuel cell systems, and the integration of renewable energy sources, preparing them to play a key role in the future of eco-friendly vehicles.

SOCIETY FOR SMART E-MOBILITY

The Society for Smart E-Mobility (SSEM) is a registered Not-For-Profit Association of Industries, Institutions and Professionals with interest to work & contribute in developing future mobility solutions focusing on autonomous, connected, electric and shared services formed in Coimbatore. SSEM have more than 80+ active members from the Electric Vehicle Industry and Academic Institutions in Coimbatore and other places. Our Institution is one of the members in this society with lifetime membership.

COURSE CONTENTS

- ❖ Drive Train for Electric Vehicles
- ❖ Electric Vehicle Battery Design
- ❖ Advanced technologies for EV Battery Management System
- ❖ Advancements in EV: Challenges, Policies and Heuristic Optimization Techniques
- ❖ Design and control of PE converters in EV: Role of ML in addressing challenges
- ❖ Emerging Trends in Advanced Materials for Electric Vehicle Batteries
- ❖ Advanced technologies for Hydrogen Fuel Cells
- ❖ Research scope in Proton Exchange Membrane Fuel Cells

RESOURCE PERSONS

From industries like Caterpillar-Bangalore, Hygge Mobility-Madurai and from some of the reputed institutions including SRM University-Chennai, PSG Tech-CBE, SVCE- Tirupati

REGISTRATION FEE

- ✓ Students – Rs.300 (For SSEM Members – Rs.200)
- ✓ Faculty – Rs.500 (For SSEM Members – Rs.400)
- ✓ Industry Persons – Rs.750 (For SSEM Members – Rs.650)
- ✓ Research Scholars – Rs. 750

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