

REGISTRATION DETAILS

- ▶ There is no registration fee to attend this program.
- ▶ Program will be in offline. Registration must be done only through AICTE-ATAL academy. The interested members must visit <https://www.aicte-india.org/atal>, register themselves by providing all their personal and student/ employment details. This procedure requires
- ▶ Uploading of color photo, Signature, ID Card (for students), and Consent letter (for employees) from their employers in JPEG format.
- ▶ Maximum 50 participants may be allowed to attend the offline FDP on a first come first serve basis.
- ▶ No Accommodation

PARTICIPANTS

The faculty members of the AICTE approved institutions, Ph.D. scholars, PG students, members from Government & Industries, and Staff of host institutions, are eligible to attend the programme. Participants interested to attend this program need to make compulsory online registration. Last date of online registration is **18/08/2024**. Shortlisted candidates will be informed through their email within a week after registration is closed.

CERTIFICATE & IMPORTANT DATES

Certificate will be provided by ATAL Academy after successful completion of FDP. Minimum 80% attendance and 60% marks in assessment conducted at the end of the program are required to earn the certificate.

RESOURCE PERSON

The resource persons for the program shall include faculty members and renowned researchers from higher education, research institutions, and Engineers from Industries. The forum paves way for budding researchers to pass through innovative techniques.

LAST DATE FOR REGISTRATION
AUGUST 18, 2024

NOTIFICATION OF SELECTION
AUGUST 20, 2024

CHIEF PATRONS

Dr.T.R. Paarivendhar, Founder Chairman
Dr.R.Shivakumar, Chairman,
SRM Group of Institutions
Chennai Ramapuram & Trichy
Mr.S.Niranjana, Co-Chairman,
SRM Group of Institutions
Chennai Ramapuram & Trichy

PATRONS

Dr.N.Sethuraman, Chief Director
Dr. K. Kathiravan, Director-Admissions
Dr.K.V.Narayanan, Associate Director
Dr. P Deiva Sundari, Principal

CONVENER AND COORDINATOR

Dr.E. Kaliappan, Professor & Head/EEE

ORGANIZING COMMITTEE

Dr.S.Gayathri Monicka, Professor/EEE
Dr.R.Karpagam, Asso.Prof/EEE
Dr.P.Marish Kumar, Asso.Prof/ EEE
Mrs.D.Chandrakala, Asst.Prof/EEE
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Mr.S.Krishnan, Asst.Prof/EEE
Dr.I.Arul Doss Adaikalam, Asst.Prof/EEE
Dr.A.Kamalaselvan, Asst.Prof/EEE
Dr.V.Suresh, Asst.Prof/EEE
Dr.C.Kamal, Asst.Prof/EEE

ADDRESS FOR COMMUNICATION

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EASWARI
ENGINEERING COLLEGE
RAMAPURAM, CHENNAI



Jointly Organized by



AICTE Training & Learning Academy (ATAL)
FACULTY DEVELOPMENT PROGRAMME

on

**OPPORTUNITIES AND CHALLENGES
OF ELECTRIC VEHICLES IN INDIA**

DATE: 26.08.2024 TO 31.08.2024

CONVENER AND COORDINATOR

Dr.E. Kaliappan,

Professor & Head, Department of EEE
Easwari Engineering College, Ramapuram,
Chennai -89

CO-COORDINATORS

Dr.T. Kesavan, Assistant Professor
Dr.C.R. Raghavendran, Assistant Professor
Department of EEE

Easwari Engineering College, Ramapuram, Chennai- 89

ABOUT THE INSTITUTION

Easwari Engineering College (EEC), an Autonomous institution is a unit of the SRM Group of Institutions located at Bharathi Salai, Ramapuram, Chennai-600089. EEC was instituted in the academic year 1996-1997 with the Approval of Government of Tamil Nadu and AICTE, New Delhi and affiliated to Anna University, Chennai since 2002.

- ▶ Easwari Engineering College offers Fifteen Under Graduate and Seven Post Graduate Programmes covering Engineering & Technology, Computer Applications and Management.
- ▶ The National Board of Accreditation has accredited all eligible Programmes up to June 2026.
- ▶ Easwari Engineering College (EEC) has obtained Autonomous Institution status from the Year 2019.
- ▶ Easwari Engineering College is accredited by NAAC with 'A' Grade.
- ▶ Easwari Engineering College is ranked in Top platinum Grade by AICTE-CII in the year 2019.
- ▶ Easwari Engineering College is Ranked in Band: 151 - 200 in NIRF 2023 by MHRD, India.

ABOUT THE DEPARTMENT

- ▶ The Department of Electrical and Electronics Engineering offers B.E in Electrical and Electronics Engineering, M.E in Embedded Systems Technologies and Ph.D.
- ▶ The Department is accredited by National Board of Accreditation continuously for the sixth time and it is valid till 2026.
- ▶ The department is ranked in Top Platinum Grade by AICTE-CII, since 2019.
- ▶ The EEE dept. has received All India 2nd Rank in the AICTE-CII Survey Award for Best Industry Institute Interaction for the academic year 2020-21.
- ▶ The Staffordshire university has presented the department with best Teaching Awards in the 2019.

- ▶ Centre of Excellence: Centre of Excellence in High Voltage Testing, Centre of Excellence in Renewable Energy
- ▶ The Department has several Student Innovation Clubs: Electronics Hobby Club, Free and Open-Source Software Club (FOSS) Club for Electrical Engineers, Energy Club, Electric Vehicles Club
- ▶ The Department has established state of Art Laboratories on High Voltage laboratory (DST FIST), Power Electronics for Renewable Energy Research Lab (AICTE MODROBS), Linear Integrated Circuits Lab and Digital Electronics Lab (AICTE MODROBS). The Department is well equipped with dSPACE, Power analyzer and High Voltage Laboratory with state-of-the-art equipment that can be used in the testing of materials and the study of different HV phenomena.
- ▶ Research work is being carried out in the areas like Power Electronics, High Voltage Engineering, Materials science, Deregulated Power System, Power Quality, Role of Artificial intelligence and IoT in Electrical Engineering, Special Electrical Machines, FACTS Devices, E-mobility and Wireless Networks.
- ▶ The Department has signed MOU with more than 17 core industries and research labs for providing consultancy services to the Industries, Placements, Skill Development Trainings and Internships.

ABOUT AICTE-ATAL FDP

The objective of AICTE's Training and Learning (ATAL) is to impart quality training through Faculty Development Programmes (FDPs) for Faculty Members, Postgraduate students, Research scholars and Industry Professionals so that the participants:

- will acquire a sound domain knowledge and associated skills set to apply in real life with industry connect.
- are equipped with Institutional Leadership skills for academic leadership.
- are understanding their roles in community wellbeing, national building and also their own career development.
- can effectively communicate knowledge and skill sets to the students in an efficient manner and their teaching-learning effectiveness is assessed

COURSE CONTENTS

The Programme is designed to cover the following topics in depth by expert lectures and Industrial visits.

1. History and evolution of EV and Charging Infrastructure and Challenges in India
2. Opportunities and Challenges in Battery Manufacturing Technologies
3. Power Electronics and Motor Drives in EVs
4. Safety Standards and Testing Protocols for Electric Vehicles
5. Battery Technologies and Management Systems
6. Government Policies and Incentives for EV Adoption
7. Smart Grid and Vehicle-to-Grid (V2G) Technology
8. Environmental Impact of Electric Vehicles
9. Economic Impact and Market Analysis of EVs in India
10. EV- Waste Management & Recycling: Opportunities ahead
11. Start- Ups: Changing EV landscape in India
12. Smart City Canvas of India
13. Research Methodologies

OBJECTIVE OF THE FDP

The Faculty Development Program "Opportunities and Challenges of Electric Vehicles in India" is intended to explore the latest technologies used in Electric Vehicle Technology and to discuss the environmental concerns associated with it. One of the main barriers in the adoption of EV in India is the inadequate charging infrastructure. The availability and accessibility of charging stations across the globe are crucial for addressing the range anxiety of EV owners. This FDP will enable the participants to acquire knowledge on the recent advancements in the battery technology used in Indian EV Industry and facilitates the research opportunities in this field. This FDP will also discuss the initiatives taken by the government and private sector to overcome the challenges faced by the EV industry in India.