

**AICTE sponsored
Six days Online
Short Term Training Program
on
Electric Mobility: Development,
Integration and Design Challenges**

Phase 1 – 22.03.2021 to 27.03.2021

ONLINE REGISTRATION LINK

<https://forms.gle/19VgsUpzSS3eB9vS8>

Important dates

Last date for Registration : 18.03.2021

Intimation of Acceptance : 19.03.2021

ADDRESS FOR COMMUNICATION

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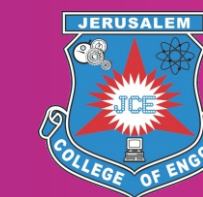
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**AICTE SPONSORED
SIX DAYS STTP**

On



**Electric Mobility: Development,
Integration and Design Challenges**



PHASE -I : 22-03-2021 TO 27-03-2021
PHASE -II : 19-04-2021 TO 24-04-2021
PHASE -III : 03-05-2021 TO 08-05-2021
PHASE -IV : 17-05-2021 TO 22-05-2021

Organized By

**DEPARTMENT OF ELECTRICAL
AND ELECTRONICS ENGINEERING**

JERUSALEM COLLEGE OF ENGINEERING

(An AUTONOMOUS Institution)

NBA and NAAC Accredited Institution

Approved by AICTE & Affiliated to Anna University

Velachery Main Road, Narayanapuram, Pallikaranai, Chennai – 600 100.

About the College

Jerusalem College of Engineering is one of the leading Institutions in Chennai which provides academic excellence for aspiring Engineering and Management students. Over the period of 25 years, it has made a mark for itself and has established as a premier institution in the field of engineering & management. It has been awarded autonomous status in May 2019. It is strategically placed within IT Hub of Chennai.

The Institute offers 7 UG and 6 PG courses in Engineering, Technology and Management. The Institute has very good infrastructural facilities and laboratories with state-of-the-art equipments. The faculty members of the college have a judicious blend of both academic and industrial experience. The alumni of the college holding key positions in various national/international industries and academic institutions have brought laurels to the institution. The Institute has been consistently getting University ranks at both UG and PG levels. The Institute is accredited by NAAC and NBA.

The Institute has Collaborative Research Centre of Anna University in the Departments of Computer Science and Engineering, Civil Engineering and Chemistry. A good number of funded projects from premier organizations are being executed in the college. Patents have also been obtained by the college for socially relevant projects.

About the Department

The Department of EEE was started in the year 1995 and has a permanent Anna University affiliation. The department has well equipped research laboratory, highly competent, well experienced staff members. The department has developed 3kW SOLAR & WIND power system under RPS scheme

The department has signed MoU's with various industries and established vibrant Renewable Energy Club, Robotics club and Electronics club to enhance the skill development of students in the recent scenario.

Theme of the Seminar

India is one of the top ten automotive markets in the world today and having highly increasing middle class population with buying potential and the steady economic growth. Due to disadvantages associated with conventional vehicles like high CO2 emission, global warming, particulate emission, air and noise pollution, increased petrol price etc. an alternative technologies in automobiles such as Electric Vehicles (EV) has become necessity. EVs have potential for reduced operating costs, fuel savings, improved national security, and environmental benefits. Research is under way to better understand and maximize these benefits, and to understand and overcome barriers to realizing them. This STTP aims to give basic knowledge of E-vehicles. obtained by the college for socially relevant projects.

Objective

- ◆ Reduce primary oil consumption in transportation.
- ◆ Facilitate customer adoption of electric and clean energy vehicles.
- ◆ Encourage cutting edge technology in India through adoption, adaptation, and research and development.
- ◆ Improve transportation used by the common man for personal and goods transportation.
- ◆ Reduce pollution in cities.
- ◆ Create EV manufacturing capacity that is of global scale and competitiveness.
- ◆ Facilitate employment growth in a sun-rise sector..

Topics Covered

- ◆ Indian EV Scenario
- ◆ Electric vehicle charging
- ◆ Standards for EV Charging Communications
- ◆ EV Power-train system and Drive Cycle Analysis
- ◆ Modeling, Simulation and Analysis of BMS or Power train
- ◆ Li-ion batteries and Battery Management System for EV application
- ◆ EV Policy
- ◆ Implementation of the Communication Protocol for EV.
- ◆ Challenges and opportunities for research in EV Technologies.
- ◆ On Economic Growth
- ◆ Research and development –technology watch

Scope of program

- ◆ Introduction to History and Architecture of EV with Sizing of drive system.
- ◆ To impart knowledge on state of art technology in EV system.
- ◆ Modelling and analysis of Power Converters for Electric Vehicle Applications.
- ◆ Optimal control of EV /HEV.
- ◆ To focus on technology associated with battery technology and battery management system used in EV.
- ◆ Energy Management Strategies and Impact of EV

Resource Persons

The sessions will be handled by the eminent speakers from premier Research, Academic Institutions and industry.

Guidelines & Eligibility

- ◆ No registration Fees.
- ◆ The faculty members of AICTE approved institutions, Research Scholars and Industry participants are eligible.
- ◆ Selected candidates will be intimated through E- mail
- ◆ Attendance is mandatory for all sessions
- ◆ On the last date of program, an assessment test will be conducted for all participants

Mode of Conduction

Google Meet Platform

Issue of Certificates

E – Certificates will be issued for the participants securing a minimum of 60% marks in the test.