



राष्ट्रीय इलेक्ट्रॉनिकी एवं सूचना प्रौद्योगिकी संस्थान, कलिकट National Institute of
Electronics & Information Technology, Calicut



सत्यमेव जयते

Ministry of Electronics and
Information Technology

Government of India

On-line Courses Prospectus

ISO 9001-2015 Certified

Certificate Course in “Electric Vehicle Technology”

Date: 4th – 30th August 2025

Time: 4.00PM to 5.30PM theory + Practical

Course Description

This course initiates candidates into the emerging area of Electric Vehicles and helps learn the Basics of Battery driven Electric Vehicle and its Dynamics, Motors, Power Electronics, Batteries, Charging etc. The program consists of instructor led live lecture sessions, demonstrations & hands on sessions based on Matlab.

National Institute of Electronics and
Information Technology, Calicut

[Click Here to Register](#)

Who can attend?

Any under graduate/ diploma student/ working professional/ industry people with basic knowledge of Electronics.

- Students pursuing Engineering,
- Professionals working on Electronic /Electric Industry.
- Research students
- Teaching professionals& faculties

Course Content

Session Topic
Electric Vehicle Fundamentals
Power, Energy, Torque & Mileage Calculation
Matlab Fundamentals
Matlab Simulink basics
Types of EV configurations & their Characteristics
Batteries Used in EV
Different types of battery chemistries
Battery management system
Types Motors used in EV
Regenerative Breaking on Electric Vehicles
Powertrain & DC-DC convertors in EV
Solar System Fundamentals
Solar Charging System for EV
Charging infrastructure in EV
Thermal Management system in EV
Latest Trends and changes in EV Market.
Setting up Public Charging Station

Prerequisite

- Knowledge of Basic electronics and Electric Machines

Fee and important dates

Fee	Rs. 6000/- (<i>Including GST</i>)
Last date for registration & payment	3 rd August 2025
Sharing of Link / passwords & other details	4 th August 2025

Certificate

Participation certificate will be issued to the candidates only those who have attended at least 60% session, Exit test & submitted the feedback.

Minimum Requirements

- Attendees must have a computer system with a good internet connection.
- PC with Matlab 2019 version installed.
- Link to attend the course will be shared in the registered email on 28-07-2025, 11.00am

Faculty Profile

Qualification and experience of the faculty handling the sessions

1. **Manoj Kumar MK** – Principal Technical Officer, 30 Years' Experience

Course Coordinator

Manoj Kumar M K

Principal Technical Officer

9447433175(M), 0495 2287266- Exn-225(O)

Email: manojkumar@nielit.gov.in

Terms and Conditions

1. In case any registered candidate could not attend the online session due to technical issue at their side there will not be any refund of the course fee and the sessions will not be repeated.
2. In case the online course is cancelled /postponed due to some technical issue at NIELIT side and new date is not convenient to the candidate, our liability is limited to the refund of the course fee and NIELIT shall not be responsible for any consequential damages.
3. 60% attendance/Exit test and feedback submission are mandatory for awarding the certificate.

For more details about our institution and facilities visit us

Website: <http://nielit.gov.in/calicut>

Twitter: https://twitter.com/CAL_NIELIT

Facebook: <https://www.facebook.com/CAL.NIELIT>

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Autonomous Scientific Society of
Ministry of Electronics & Information Technology,
Govt. of India

NIELIT Calicut

Post Box No. 5, P. O. NIT Campus,
CALICUT – 673601, Kerala

Reach Us on WhatsApp 9446711666

Tel. : 0495-2287266

Mob. : 9446011266 / 9446013966

Email : trng@calicut.nielit.in

URL : <http://nielit.gov.in/calicut>

