About VIT

Being founded in 1984, VIT has made a mark in the field of higher education in India imparting quality education in a multi-cultural ambience, intertwined with extensive application-oriented research. VIT aims to provide quality higher education on par with International Standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. VIT was established by the well-known educationalist and former parliamentarian, Dr. G. Viswanathan, Founder and Chancellor, a visionary who has transformed VIT into a center of excellence in higher technical education. Govt. of India recognized VIT as an Institution of Eminence (IoE). ARIIA, Govt. of India recognized VIT as a No. 1 Private University for Innovation, VIT has been ranked 21st in Overall Category, 12th in Engineering Category, and 13th in university by the MHRD-NIRF Ranking 2021. VIT Chennai is a globally engaged, competitive, comprehensive and research-enriched campus strategically positioned in the capital city of Tamil Nadu, to respond to major industrial, social, economic and environmental demands and challenges. VIT Chennai is ably spearheaded by Vice Presidents, **Mr. Sankar Viswanathan**, **Dr. Sekar Viswanathan**, **Mr. G.V. Selvam,** Vice Chancellor, **Dr. Rambabu Kodali**, and Pro Vice Chancellor, **Dr. V.S. Kanchana Bhaaskaran**. They share in the mission to make VIT a global center.

The focuses are:

- To maximize the industrial connectivity
- To create Centers of Excellence in contemporary areas of research
- To enrich technological and managerial human capital nurtured in a multicultural ambience
- To provide a common platform for the agglomeration of ideas of personnel from various walks of life for learning enrichment
- To create opportunities and exploit the available resources to benefit industry/society
- To encourage participation in the National Agenda of knowledge building
- To foster international collaborations for mutual benefit in areas of research

About eVITRC:

Globally, the automotive industry is passing through a paradigm shift. The past century was the era of internal combustion engine primarily because of the ease of use, availability and low-cost of fossil fuels. The shift to electric mobility has become necessary on account of fast depletion of fossil fuels, rapid increase in energy costs, and impact of transportation on the environment and concerns of climate change. “Electric Vehicles - Incubation, Testing and Research Centre (eVIT – RC)” is one of the Research Divisions of Vellore Institute of Technology (VIT) Chennai, established in August 2020.

The Centre focuses on research and development in the key broad areas like Powertrain, Wireless charging, Battery and Battery Management Systems (BMS), Power quality analysis, Light weighting, Noise vibration and Harness analysis, Ancillaries etc.

VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Electric Vehicle – Incubation, Testing and Research Centre

Two Days Workshop on

EV Charge Controllers – Power and Control Aspects

in association with

TATA Elxsi (P) Ltd., Trivandrum

Organizers

Dr. P. Balamurugan

Dr. J.L. Febin Daya

4th & 5th February 2022

About the Workshop

This workshop titled "EV Charge Controllers" is the need of the hour in line with current trends and technology travel towards sustainable transportation and greener energy. The workshop deals with the design and development of power electronic converter for charging batteries in EV and developing a suitable controller that extends the life and efficacy of the batteries without any degradation. The workshop is planned to be organized for two working days, with one day dedicated for power electronic converter design and the second day for controller design. The workshop covers both theoretical aspects and hands-on training to the participants from various disciplines and domains of electrical engineering. The target audience is expected to have a basic idea on EV charging. Sessions will be delivered by experts from Academia and Industry. The participants are expected to have their own laptops with Matlab installed prior to the workshop and good internet connectivity. The participants will receive study materials/course contents shared via Google Drive. The participants will receive e-Certificates with a valid QR-Code.

Workshop Contents:

Day 1:

Session-1: Introduction to EV Charger

Session-2: Design of Power Converter for EV

Session-3: Hands-on Practice using Simulation Tools

Day 2:

Session-4: Introduction to Controllers

Session-5: Mathematical Model of Closed-loop Controller

Session-6: Hands-on Practice using Simulation Tools

Mode of Workshop: Online Platform - Zoom

Registration Fee:

Students (UG/PG/PhD): INR 600 per participant

Others: INR 800 per participant

Registration fee is inclusive of GST @18%.

Registration & Payment Link:

https://vitchennaievents.com/

Important Dates:

Final Call for Registration: 30th January 2022

Intimation of Confirmation: 2nd February 2022

Workshop: 4th & 5th February 2022

For details contact:

Dr. P. Balamurugan – 99621 04997

balamurugan.p@vit.ac.in

Dr. J.L. Febin Daya – 99944 68737

febindaya.jl@vit.ac.in

VIT®

Vellore Institute of Technology

(Deemed to be University under section 3 of UGC Act, 1956)

Two Days Workshop on

EV Charger Controllers – Power and Control Aspects

Details of the Registration

Name of the participant:

Designation:

Organization:

Mode of Payment:

Details of Transactions:

Unique ID:

Date of Payment:

Mobile Number:

e-Mail ID for correspondence:

TATA ELXSI