

## Conveners

**Dr. Y P. Obulesu**  
Professor

**Dr. Ravi Kuppan**  
Professor

School of Electrical Engineering  
VIT, Vellore, Tamilnadu-632014.

## Resource Persons

Experts from EVNEXUS Private Ltd, Chennai

## Registration Process

- Prospective participants are requested to register for the workshop through the following link: <https://events.vit.ac.in/>
- Number of participants limited to 100.
- Participation Certificate will be issued to all registered participants.

Attendance is mandatory for all the sessions

## Registration Fee

Registration Fee :

UG students	-- Rs 400
PG Students/Research Scholars	-- Rs 600
Faculty	--Rs 1000

## Important Dates

Last Date for Registration: 27<sup>th</sup> September 2023

## Organizing Committee

### Chief Patron

**Dr. G. Viswanathan, Chancellor**

### Patrons

**Shri. Sankar Viswanathan, Vice President**

**Dr. Sekar Viswanathan, Vice President**

**Dr. G. V. Selvam, Vice President**

**Dr. Rambabu Kodali, Vice Chancellor**

**Dr. Partha Sharathi Mallick, Pro-Vice Chancellor**

**Dr. T. Jayabarathi, Registrar**

### Organizing Chair

**Dr. Mathew Mithra Noel, Professor & Dean**  
*School of Electrical Engineering*

### Organizing Co-Chairs

**Dr. N. Amutha Prabha, Assoc. Dean &**  
*Professor, School of Electrical Engineering*

**Dr. Sathish Kumar. K, Professor & HOD (EEE),**  
*School of Electrical Engineering*

**Dr. Rajini G.K, Professor & HOD (EI),**  
*School of Electrical Engineering*

**Dr. Ponnambalam. P, Professor & HOD (EPE),**  
*School of Electrical Engineering*

**Dr. Jaganatha Pandian, Assoc. Prof. & HOD (CA),**  
*School of Electrical Engineering*

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# VIT<sup>®</sup>

**Vellore Institute of Technology**  
(Deemed to be University under section 3 of UGC Act, 1956)

## A 3-Day Workshop on

## Hands-On training on development of Electric Vehicles

**28<sup>th</sup> to 30<sup>th</sup> September 2023**



**Organizing in association with  
EVNEXUS Green Mobility**



**EVNEXUS**  
**GREEN MOBILITY**

**School of Electrical Engineering  
Vellore Institute of Technology, Vellore**

## About the Institution

VIT was founded in 1984 as Vellore Engineering College by the Chancellor, Dr. G. Viswanathan. From its humble beginnings, the institution has grown exponentially to that of more than 35,000 students. It was conferred the University status in 2001 in recognition of its excellence in academics, research, and extracurricular initiatives. Currently, VIT has 4 campuses – in Vellore, Chennai, Amaravati (AP) and Bhopal (MP). VIT has been consistently ranked among the best institutions of the country and is aspiring to emerge as a global leader. The National Institutional Ranking Framework (NIRF) of the MHRD, Government of India, has identified VIT as the best Private Engineering Institution in India. With students from all the states of India and from more than 50 countries, the cosmopolitan VIT provides an appropriate ambience for holistic learning and comfortable living. Sports, games and cultural activities are an integral part of student life on campus. VIT holds an exemplary placement record by consistently placing more than ninety percentage of the students in good companies. The VIT's international linkages provide ample opportunities for students and faculty to gain global exposure. VIT alumni, spread across the world, are serving the most-advanced as well as the most deprived.

## About School of Electrical Engineering

School of Electrical Engineering (SELECT) has 109 faculty members who have done their UG and PG degrees from the top-notch universities. The School offers B.Tech (Electrical and Electronics Engineering), B.Tech (Electronics and Instrumentation Engineering), M.Tech (Power Electronics and Drives) and M. Tech (Control and

Automation), M.S. by Research and Ph.D. in Engineering. B. Tech (Electrical and Electronics Engineering) and B.Tech (Electronics and Instrumentation Engineering), is accredited by the Engineering Accreditation Commission of ABET. All UG & PG programmes of the school are accredited by the Institution of Engineering and Technology (IET), the U.K. The placement record of the School has always been impressive. Almost 100% of the students get job from the campus placement and many of them are getting it in core companies every year. The School has state-of-the-art laboratories in almost all the areas of Electrical, Electronics and Instrumentation Engineering. Every year, students get scholarships to do their final year projects abroad under the Semester Abroad Program (SAP). Danfoss Industries Pvt. Ltd. India, Schneider Electric, India and NXP Semiconductors, India, have established Centre of Excellence for students R&D activities under the guidance of faculty members and industry experts. The School has signed MoUs with many foreign universities, research organizations and Industries from where students get benefits for their R&D Work / Projects from the MoUs.

## About the Workshop

The Workshop on **Hands on training on development of Electric Vehicles** is a platform for UG/PG Students and Research scholars as well as professionals to acquire required skills on the electric vehicle technology,

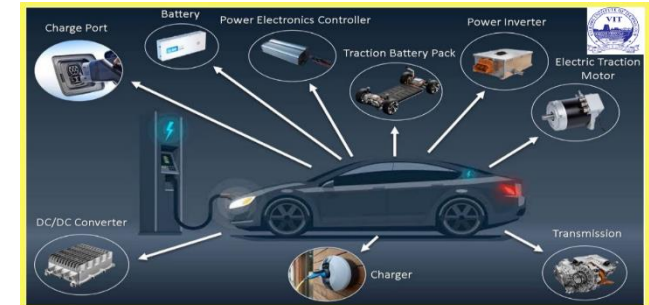
Day 1: 28<sup>th</sup> Sep 2023 (Thursday) – Electric vehicle architectures, power train and Motor selection,

Day 2: 29<sup>th</sup> Sep 2023 (Friday) Battery selection, integration, BMS and SoC estimation

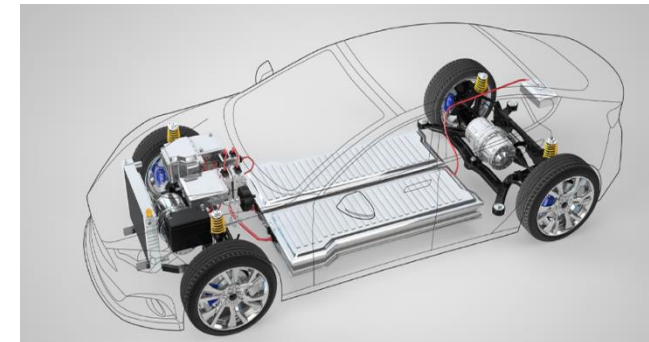
Day 3: 30<sup>th</sup> Sep 2023 (Saturday)- Design of Power converters, chargers, and CAN protocols.

## Topics to be Covered

### ➤ Electric Vehicle components and architecture



### ➤ Electric Vehicle Powertrain and power converters design



### ➤ Motor Control and BMS of Electric Vehicle

