

A One-day Seminar on e-Mobility

October 26, 2023
Rajaji Hall, VIT, Vellore

Eligibility

Faculty Members / Research Scholars / B.Tech / students who are actively involved in the field of basic or allied sciences or engineering.

Industry professionals who are actively involved in R&D.

General Information

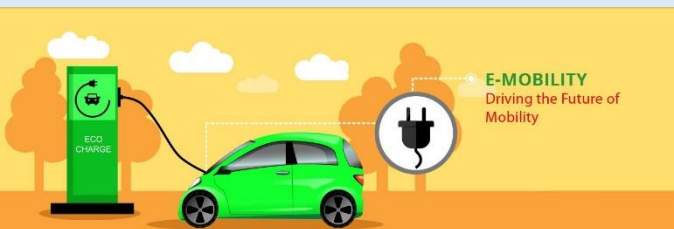
- No registration fees.
- Only limited participants are allowed.

For Registration:



Contact:

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Dr. G. Viswanathan, Chancellor

Patrons

Mr. Sankar Viswanathan, Vice – President
Dr. Sekar Viswanathan, Vice - President
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Convenor

Prof. Devendranath Ramkumar K,
Dean-SMEC, VIT, Vellore

Members

Dr. ArunTom Mathew,
Professor & Asso. Dean, SMEC, VIT, Vellore
Prof. Benedict Thomas,
HOD, Design & Automation, SMEC, VIT Vellore
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HOD, Manufacturing Engineering, SMEC, VIT Vellore
Prof. Ashok B,
HOD, Automotive Engineering, SMEC, VIT Vellore
Prof. Asokan M A,
HOD, Thermal & Energy Engineering, SMEC, VIT Vellore

Organising Secretaries

Dr. K. Nanthagopal,
Dept. of Automotive Engineering, SMEC, VIT Vellore
Dr. R. Prakash,
Dept. of Thermal and Energy, SMEC, VIT Vellore
Dr. D. Sakthivadivel,
Dept. of Thermal and Energy, SMEC, VIT Vellore
Dr. Tabbi Wilberforce Awotwe, Kings College London, UK
Dr. Abed Alaswad, Deputy Head of Mechanical Engineering,
Aston University, Birmingham, UK



VIT[®]

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

School of Mechanical Engineering

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In association with



Funded by



Vellore Institute of Technology (VIT)

Vellore Institute of Technology was founded in 1984 as Vellore Engineering College by the Founder and Chancellor Dr. G. Viswanathan. University status was conferred in 2001 by MHRD Govt. of India in recognition of its excellence in academics, research and extracurricular initiatives.

Ranking & Accreditation

Vellore Institute of Technology (VIT) has emerged as one of the best institutes of India and is aspiring to become a global leader. Quality in teaching-learning, research and innovation makes VIT unique.

- ❖ Engineering and Technology subject areas of VIT are the 240th best in the World and the 9th best in India, and eight subjects of VIT are within the top 500 in the world (as per QS World University Rankings by Subject 2023)
- ❖ The 8th best University, the 11th best research institution and the 11th best engineering institution in India (NIRF Ranking, Govt. of India 2023)
- ❖ Ranked among the top 601-700 Universities of the world and one of the top 3 Institutions in India (Shanghai ARWU Ranking 2022)
- ❖ NAAC Accreditation with A++ grade (3.66 out of 4)
- ❖ The 173rd best Institution in Asia (QS - Asia University Rankings 2023)



School of Mechanical Engineering (SMEC)

The School of Mechanical Engineering is one of the oldest and most prestigious schools of VIT. This school started functioning right from 1984, the year in which our institution began. The School of Mechanical Engineering offers 3 undergraduate and 6 post-graduate programs. The school has a team of highly qualified faculty members, many holding PhDs from elite institutes across the globe, to teach and train this country's best minds. The pride of the school lies in the significant research funding received from several National and International agencies such as DST, DRDO, MNRE, CSIT, CVRDE, CPDO, IE, AR&DB, BRNS, ISRO, UGC, NRB, Royal Academy of Engineering etc. The Department of Science and Technology, Govt. of India has recognized the school for its research activities and supported it in 2003, 2010 and 2022 under the FIST scheme. The school has modern facilities, enabling cutting-edge research in a wide spectrum of niche technological areas. The school is ranked 501-600 in the World as per THE World University Subject Ranking in 2021. Mechanical and Manufacturing Engineering is ranked within the top 10 in India and top 251-300 in the world as per QS World University Rankings by Subject 2023.

Objectives of the workshop

- ✓ To provide the context conceiving, designing, implementing and operating e-mobility activities.
- ✓ To address the Future of Smart Electric Vehicles: Digital Twin Technology
- ✓ To select appropriate motor and converter for EV applications
- ✓ To comprehend the Battery Thermal Management in E Mobility

Course Content

1. The Role of CDIO in Engineering Education through the Development of e-mobility activity
2. Towards the Future of Smart Electric Vehicles: Digital Twin Technology
3. Motor and Motor Controllers – EV Charging Stations
4. Battery Thermal Management in E Mobility

Keynote Speakers

Keynote Address 1 (10:00 pm to 11:30 pm):

- ❖ The Role of CDIO in Engineering Education through the Development of e-mobility activity

Prof. Tabbi Wilberforce

Faculty of Natural, Mathematical & Engineering Sciences King's College London, UK

Keynote Address 2 (11: 45 am to 1:15 pm):

- ❖ Towards the Future of Smart Electric Vehicles: Digital Twin Technology

Prof. Raja Singh

Associate Professor, Department of Energy and Power Electronics SELECT, Vellore Institute of Technology, Vellore, Tamil Nadu, India.

Keynote Address 3 (2:15 pm to 3:45 pm):

- ❖ Motor and Motor Controllers – EV Charging Stations

Mr. Pramod

Devise Electronics, Pune.

Keynote Address 4 (3:45 pm – 4:45 pm):

- ❖ Battery Thermal Management in E Mobility

Dr. Rammohan A

Assistant Professor, Automotive Research Centre Vellore Institute of Technology, Vellore, Tamil Nadu, India.

