



VIT[®]

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

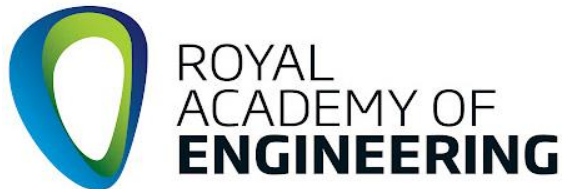
Vellore Institute of Technology, Vellore School of Electrical Engineering & School of Mechanical Engineering

*Royal Academy of Engineering and British Council Sponsored
a one-day Workshop on*

Battery Parameter Estimation Techniques and EV Chargers



Sponsors



Coordinators

Dr. V. Indragandhi , SELECT
Dr. Amutha Prabha N, SELECT
Dr. Palanisamy K , SELECT
Dr. B.Ashok , SMEC

Registration Link

<https://forms.gle/8hdXYVFG7EQfQtMA8>



Date:

03.09.2024

Time:

9.30 AM-4.30 PM

CHIEF PATRON

Dr. G. Viswanathan, *Chancellor*

PATRON

Mr. Sankar Viswanathan, *Vice President*

Dr. Sekar Viswanathan, *Vice President*

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ORGANIZING CHAIRS

Dr. Mathew Mithra Noel,
Dean, SELECT

Dr. Devendranath Ramkumar,
Dean, SMEC

CONVENERS

Dr. V. Indragandhi, *Prof, SELECT*

Dr. Amutha Prabha N, *Prof, SELECT*

Dr. Palanisamy K, *Professor, SELECT*

Dr. Ashok B, *Professor, SMEC*

ABOUT VELLORE INSTITUTE OF TECHNOLOGY

VIT was established with the aim of providing 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. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. In fact, it has become a way of life for us. The highly motivated youngsters on the campus are a constant source of pride. Our Memoranda of Understanding with various international universities is our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities. Many of our students, who pursue their research projects in foreign universities, bring high quality to their work and esteem to India and have done us proud. With steady steps, we continue our march forward. We look forward to meeting you here at VIT.

About workshop

Recent developments in EV powertrains have been marked by significant advancements in battery technology, motor efficiency, and the integration of renewable energy sources. The shift towards solid-state batteries promises higher energy densities, faster charging times, and improved safety over traditional lithium-ion batteries. Innovations such as silicon anodes are also enhancing battery performance. In motor technology, manufacturers are exploring more efficient designs like axial flux motors that offer high torque density and compactness ideal for EV applications. Prospects for powertrain evolution include further integration with smart grid technologies to enable V2G services where EVs can return energy to the grid during peak demand times. Additionally, there is ongoing research into wireless charging systems for dynamic charging while driving. The development of ultra-fast charging stations aims to reduce range anxiety among consumers.

Registration

- ✓ Participants provided with a certificate
- ✓ Attracting Prizes to Quiz Winners (End of Every Session)
- ✓ **No registration fee for participants from VIT, Vellore.**

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Event Details

Technical Sessions

**Schedule will be communicated*

Contact

Dr. Indragandhi.
Phone: 9750603539
Email: indragandhi.v@vit.ac.in

Speakers

Dr. Mohamed Emad Farrag
*Professor, Electrical Power Engineering
Glasgow Caledonian University
United Kingdom*



Dr.V. Indragandhi,
*Professor, SELECT
Vellore Institute of Technology, Vellore*



Dr. K. Palanisamy,
*Professor, SELECT
Deputy Director-Electrical Maintenance
and Projects in charge,
Vellore Institute of Technology, Vellore*



Dr Mohamed Elgenedy
*Lecturer, Department of Electrical and
Electronics Engineering
Glasgow Caledonian University
United Kingdom*

