

REGISTRATION FORM

Details of corresponding author

Name :
Gender :
Date of Birth & Age :
Designation & Dept :
Institution :
Academic Qualifications :
Experience :
Mobile No :
E-mail :
Address :

PIN code :

Date :



Online Registration

Signature of the Applicant

Signature of the Head of the Department

Seal :

Place :

Date :

ORGANIZING COMMITTEE

CHIEF PATRON

Convener Committee

Anna University, Chennai.

HONORARY PATRON

- Dr. J. Prakash,
Registrar-Anna University

PATRON

- Prof.Dr.P.Hariharan
Director-(CCC)

CO-PATRON

- Dr. M.Saravanakumar
Dean- AURCC
- Dr. S. Saravanakumar
Head of the Department-EEE-AURCC

WORKSHOP CO-ORDINATORS

- Dr.S.Sumathi, AP/EEE-AURCC
- Dr.M.Yuvaraju AP/EEE-AURCC

CONVENORS

- Dr. T. Aruldoss Albert Victoire ASP/EEE-AURCC
- Mr.R.Balamurugan AP/EEE-AURCC
- Dr.R.Suresh Kumar AP/EEE-AURCC
- Dr.M.Newlin Rajkumar AP/EEE-AURCC
- Dr.R.Vijayabhasker AP/EEE-AURCC
- Dr. S. Kirubadevi AP/EEE-AURCC
- Dr. L. Sheela AP/EEE-AURCC

TECHNICAL COMMITTEE

- Dr.V.PrasannaMoorthyProfessor, GCT, CBE
- Dr.K.Ranjithkumar Professor, GCT,CBE
- Dr.P.Maruthupandi Assistant Professor GCT, CBE
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- Dr.S.Gunasekaran Assistant Professor CIT,CBE
- Dr.N.Archana Assistant Professor PSG TECH,CBE
- Dr.K.Martin Sagayam Assistant Professor, ECE
Karunya Institute of Technology and Sciences, CBE



E-CUBE

**TWO-DAYS
NATIONAL WORKSHOP
ON
*DESIGN AND SIMULATION
OF
CONVERTERS FOR EV APPLICATION*
26 - 27 September 2025**



Organized by
Department of
Electrical and Electronics Engineering

**ANNA UNIVERSITY REGIONALCAMPUS
COIMBATORE-641 046**

Website: <http://www.aurcc.ac.in/>

ABOUT THE INSTITUTION

Anna University Regional Campus, Coimbatore formerly known as AURCC was started in 2007. This Institution Offers Full –time UG and PG Courses for various streams in Engineering, Technology and Management along with Recognized supervisor and more than 50 scholars pursuing their research. It is

located in an Arcadian Environment away from the hustle and bustle crowd of the city. Our Campus is equipped with excellent infrastructure and highly qualified facility members, who facilitate hands on experience to students for master the skills in various discipline. To transform the budding engineers in their pursuit of knowledge into academically excellent, highly intellectual and self -discipline engineering graduates.

ABOUT THE DEPARTMENT (EEE)

The Department of Electrical and Electronics Engineering was established in the year 2007. The objective of the department is to transform students into globally competent engineers who are prepared to meet the needs of the society and adapt to the changing technology in various fields.

The Department has well qualified experience and dedicated facility member with specialization in various fields like Power Systems Engineering, Power Electronics and Drives, Control and Instrumentation, Electrical Drives and Embedded Control,

Embedded System Technologies and Core Electrical Engineering. The Department organizes Value Added Courses, workshops, seminars, Guest lectures, Industrial Visit, Symposiums, Technical contests with Industries /companies to enable the students and faculty to update themselves with the latest developments. It is updated regularly to keep up with the growing demands and the changing trends of the electrical industry and research laboratories.



REGISTRATION FEE DETAILS

Per Person

Category	FEE (RS)
UG Student	200
PG Student	250
Research Scholar	300

(Including Conference kit, Proceeding copy, Certificate, Lunch and Refreshments)

MODE OF PAYMENT

Registration fee should be paid through online. After receiving the acceptance intimation you can pay the Registration fee through online mode

ADDRESS FOR COMMUNICATION

Dr.S.Sumathi / Dr.M.Yuvaraju Assistant Professor, Department of EEE Anna University Regional Campus, Coimbatore -641046 Email :aurccee23@gmail.com Contact No:7358506015, 9894685484.



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AREAS TO BE COVERED

BUT NOT LIMITED TO

1. Overview of Electric Vehicle (EV) Powertrains
2. Importance of Power Converters in EVs
3. Types of Converters Used in EV Applications
4. DC-DC Converter Topologies
5. DC-AC Inverter Topologies
6. Bidirectional Converter Design
7. Battery Charging Converters
8. On-board vs. Off-board Charging Systems
9. Power Factor Correction in EV Chargers
10. Multi-level Converter Architectures
11. Soft Switching Techniques
12. PWM (Pulse Width Modulation) Control Methods
13. High-frequency Transformer Design
14. Thermal Management in Converter Circuits
15. Materials Selection for Power Devices (Si, SiC, GaN)
16. EMI/EMC Considerations
17. Efficiency Optimization Techniques
18. Protection and Fault Diagnosis in Converters
19. Battery Management System Integration
20. Regenerative Braking and Energy Recovery
21. Real-time Simulation Tools for Converter Design
22. Hardware-in-the-Loop (HIL) Testing
23. Safety Standards and Compliance
24. Cost and Scalability Analysis
25. Future Trends in Power Converter Design for EVs