

## ABOUT THE COLLEGE

PSG College of Technology, an institution of academic excellence, was founded in the year 1951 by PSG & Sons' Charities Trust. The institution is equipped with latest facilities and excellent infrastructure. The college has signed MoUs with research organizations and industries to promote closer interaction in the areas of technology development, student training, curriculum updation and establishment of state-of-art-centers of excellence. The mission of the institution is to provide world-class engineering education, foster research and development, evolve innovative applications of technology, encourage entrepreneurship and ultimately mould young men and women capable of assuming leadership of the society for the betterment of the country.

## ABOUT THE DEPARTMENT

The Department of Electrical and Electronics Engineering has been playing a vital role in producing scientists and technologists of highest caliber ever since it was established in the year 1951. The department offers UG (Regular and Sandwich) programmes, PG programmes (Applied Electronics, Power Electronics & Drives, and Embedded & Real-Time Systems), and PhD programmes.

### **Laboratories and Centres of Excellence:**

PSG-DANFOSS Centre of Excellence in Climate and Energy, PSG-LAPP Centre for Excellence in Cable Technology, PSG-L&T Centre for Excellence in LV Switchgear, PSG-PROSUN Centre for Excellence in Solar PV systems, AICTE-Wind Emulator Laboratory,

Power Converters and PSG-Schneider Centre for Excellence and PSG-Texas Instruments Centre for Excellence for IoT, PSG-CARE Centre for Renewable Energy Systems.

## ABOUT THE FDP

Sustainable energy and mobility are two critical areas where power electronics play a pivotal role in achieving a more environmentally friendly and efficient future. Power electronics are essential for converting and controlling electrical energy in various applications, including renewable energy systems and electric vehicles. Ongoing research in this field focuses on improving efficiency, reliability, and integration, while also addressing environmental and cybersecurity challenges. Advancements in power electronics will continue to play a pivotal role in shaping a greener and more efficient future. This two day workshop will focus on how innovation in power electronics will continue to drive the transition toward a more sustainable energy future. In terms of mobility, power electronics is used in electric propulsion, battery management, DC – DC conversion, charging infrastructure, energy management, thermal management, regenerative braking, energy recovery and many more.

## COURSE CONTENTS

- ❖ Power Converters for Electric Vehicle
- ❖ Digital Control Implementation (DSP based)
- ❖ Control of motors for Electric Vehicle
- ❖ EV charging infrastructure

## ORGANIZING COMMITTEE

### CHIEF PATRON

**Shri L. Gopalakrishnan**  
Managing Trustee

### PATRON

**Dr. K. Prakasan**  
Principal

### CONVENOR

**Dr. J. Kanakaraj**  
Professor & HoD,  
Dept. of EEE

### COORDINATORS

**Dr. R. Latha**  
Associate Professor  
EEE

### Dr. N. Archana

Assistant Professor (Sel. Gr.)  
EEE



## RESOURCE PERSONS

Experts from Industries and Academic Institutions.

## DATES TO REMEMBER

Last date for registration: **01-12-2023**

Intimation of Selection: **04-12-2023**

## ELIGIBILITY

UG, PG students, Research scholars, Faculty members from colleges and polytechnic colleges and Industry professionals.

## COURSE FEE (INCLUSIVE OF GST)

- Faculty / Students – Rs. 1200

### Online Payment Details:

PSG Centre for Nonformal and Continuing Education  
Central Bank of India, Peelamedu Branch  
Account Number: 1481267367  
IFSC Code: CBIN0280913

### For Queries contact

**Dr. R. Latha**

**Associate Professor**

**Department of EEE, PSG College of Technology**

**Peelamedu, Coimbatore – 641004**

**Ph: 9940900210, 9600952675**



## REGISTRATION

### Sustainable Energy and Mobility: Prospects and Research Challenges in Power Electronics

**08-09 December 2023**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Department: \_\_\_\_\_

Name of the Institution: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Mobile: \_\_\_\_\_

DD Number : \_\_\_\_\_

Bank Name : \_\_\_\_\_

### DECLARATION

The given information is true to the best of my knowledge. I agree to abide by the rules and regulations governing the programme. If selected, I shall attend the course for the entire duration.

Place:

Date:

Signature of the Candidate

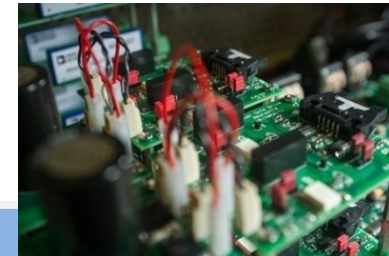


**PSG COLLEGE OF TECHNOLOGY,  
DEPARTMENT OF EEE**

**Two days Hands-on workshop on**

### Sustainable Energy and Mobility: Prospects and Research Challenges in Power Electronics

**08-09 December 2023**



Organized By

**Department of Electrical & Electronics Engineering**

**PSG College of Technology**

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