

Topics to be Covered

- Industry 4.0
- Industrial IoT
- Electric Drives
- Power Converters
- Machine Learning
- Sensor Interface and Signal Processing
- Charging Infrastructure
- Controllers for Electric Vehicle
- Battery Management System

Important Dates

Last date of Registration : **31-12-2021**

Intimation of Acceptance : **05-01-2022**

Online Registration Form:

<https://forms.gle/CwRh88h3uCKmKNL6>



Guidelines

- Free Registration**
- This programme is open for faculty members of AICTE approved engineering and polytechnic colleges
- Limited to a maximum of 100 participants
- Sessions will be held only in online mode

Contact us

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AICTE - ISTE Sponsored

One Week Online

Induction / Refresher Programme

on



Industry 4.0 and Electric Vehicles

17th Jan 2022 to 22nd Jan 2022



Coordinator

Dr. Subash Kumar C S

Associate Professor - EEE

Co-Coordinator

Ms. Divya R

Assistant Professor - EEE

Organized by

Department of Electrical and Electronics Engineering

PSG Institute of Technology and Applied Research

Neelambur, Coimbatore - 641062, Tamilnadu, India

About the Institution

PSG Institute of Technology and Applied Research, started in the year 2014, is an AICTE approved institution and affiliated to Anna University, Chennai. The latest initiative of PSG and Sons' Charities, aims to realize its objective of enhancing youth empowerment through technical education. This institute caters to various engineering disciplines, focusing on learning, industry engagement of students, innovative and inclusive pedagogy, and ethics. The institution aims at effective transfer of knowledge, pursuit of truth and moulding the students to become ideal citizens of the country. Within a short span of time, the institution has emerged to be one of the most preferred institutions for the engineering aspirants in Tamilnadu.

About the Department

The Department of Electrical and Electronics Engineering was established in the year 2014 offering Bachelor of Engineering undergraduate programme. The mission of the department is to enable students become successful technocrats, and contribute to the progress of society. The department has faculty members with specializations in Power Systems, Electrical Machines, Power Electronics, Control Engineering, and Embedded and Real-Time Systems and some of them have a rich industry experience also. The department has set up industry supported laboratories and signed MoUs with industry leaders, thereby providing ample opportunities for faculty members and students, to interact with industry experts.

Vision

To nurture youth to become technocrats in Electrical and Electronics Engineering who are competent to face challenges and solve problems in a socially responsible and environmentally sustainable manner.

About the Refresher Programme

Faculty members attending the training programme will have exposure to the latest technologies in electric vehicles and Industry 4.0. These topics of discussion are in emerging areas, and there is a vast scope for research and development. Faculty members undergoing training will be trained on software deployed in automation and electric vehicles. The programme will help in transfer of knowledge from renowned experts from academia and industry, to faculty members, to bridge the gap between industry and academia.

Objectives of the Refresher Programme

- ✎ Apply automation for practical applications to transfer data to the cloud for digital transformation.
- ✎ Explore the various challenges in machine learning, artificial intelligence and industry 4.0, and to increase the operational efficiency and reduce cost.
- ✎ Choose appropriate controllers, batteries, motor and drives for electric vehicle applications.
- ✎ Understand the Battery Management System (BMS) and power electronics involved in energy conversion and drive system.

Outcomes

The participants attending this programme will be:

- ❖ Able to understand the Industry 4.0, and smart manufacturing techniques.
- ❖ Able to know different control techniques for electric drives and energy storage system in electric vehicles.
- ❖ Able to use software to develop automation projects and electric vehicles.

Chief Patron

Shri. Gopalakrishnan L, Managing Trustee

Patron

Dr. Chandramohan G, Principal

Convener

Dr. Vasu C L, Professor & Head - EEE

Coordinator

Dr. Subash Kumar C S, Asso. Prof. - EEE

Co-Coordinator

Ms. Divya R, Asst. Prof. - EEE

Organizing Committee

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