Outcomes

- Participants would be able to develop an electric/hybrid vehicle model with its governing equations.
- To understand the system-wise interaction and its significance.
- To evaluate the modeling parameters with certain experimental parameters for real-time driving scenario.

Registration Fees

- Faculty: Rs. 6500/- (Including taxes)
- Industry: Rs. 10,000/- (Including taxes)

* Registration fees to be paid through DD to PSGCNCE payable at Coimbatore.

For Admission details:
Ms. R. Shanthamani
Secretary, PSG CARE
G-201, 1st Floor, G-Block
PSG College of Technology
Coimbatore - 641004
Phone: 0422-4304488
Email: secretary@psgcare.org

For Technical details:
Dr. P.K. Rajesh
Professor, Department of Automobile Engineering
PSG College of Technology
Coimbatore - 641004
Mobile: 97910-44995
Email: pkr.auto@psgtech.ac.in

PSG College of Technology
PSG Centre for Academic Research and Excellence
Certificate Programme in
Hybrid and Electric Vehicle Modelling
10.05.2020 to 16.05.2020
In order to create a sustainable and efficient transportation ecosystem, the Government of India (GOI) is targeting implementation of electric mobility by the year 2030. Also, GOI is encouraging academia and industry to collaborate and come with efficient and optimized pathway(s) to meet the target.

**OBJECTIVES**

- Select correct functionality of a "vehicle model" comprising of electric power train and its components.
- To compute motor power, energy storage devices capacity and hybridization factor.
- To analyse the motor performance using suitable software tool for estimating the maximum energy and power.
- Compute battery-pack nominal energy capacity from individual cell energy capacities.
- Analyse charge profiles of voltage and current associated with drive cycles to evaluate transient and steady state conditions.

**TOPICS COVERED**

- Introduction to modeling tool
- Engineering applications of modeling tool
- Engine and tyre modeling
- Power electronics and drives for EVs/HEVs
- Introduction to EV/HEV modeling
- Battery modeling and analysis
- Power converters modeling for EVs
- Signal processing analysis for EVs

**Who Will Benefit**

- Faculty who are working in the areas of Electric and Hybrid Vehicles from Mechanical, Electrical, Automobile, Production, Computer Science, Control Systems and Embedded Systems.
Registration Form

Name (Block) : .................................................................
Date of birth & Age : ...........................................................
Qualification : .................................................................
Designation : ....................................................................
Department : .....................................................................
Organization : ...................................................................
Address for Communication : .............................................

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: .......................................................................................

PIN : ................................................................................
Phone : ............................................................................
Mobile : .............................................................................
E-mail Id : .......................................................................... 

DD Details /Bank Name : ....................................................
DD No. : .............................................................................
Amount : ............................................................................

* Registration fees to be paid through DD to PSGCNCE payable at Coimbatore.

Date : .............................................................. Signature of the Participant
Place : ..............................................................