PSG COLLEGE OF TECHNOLOGY

Department of Automobile Engineering

10th National Conference on Advances in Automotive Technology

20.03.2020
Overview

PSG COLLEGE OF TECHNOLOGY

PSG College of Technology is an Autonomous, Government Aided Engineering College affiliated to Anna University and approved by AICTE, located at Peelamedu, Coimbatore. PSG College of Technology offers 15 UG, 27 PG and PhD programmes. The College has excellent infrastructure, well equipped laboratories, highly qualified and experienced faculty.

DEPARTMENT OF AUTOMOBILE ENGINEERING

The Department of Automobile Engineering has evolved a comprehensive student centric learning approach, designed to add significant value to the learners understanding in an integrated manner through workshop, lab sessions, assignments, training, seminars, internships, project, student exchange and internship study. The department was established with an undergraduate programme in Automobile Engineering in the year 1999, followed by post graduate programme in Automotive Engineering in 2009 and offers doctoral research programme. Keeping itself up to date with the latest development in the field with dedicated team of highly qualified and experienced faculty in various streams of automobile engineering along with constant interaction with industry, the department consistently provides world class facilities for education and research. The department is well equipped with laboratories like PACE, engine testing and diagnostic center, vehicle servicing lab, automobile electrical and electronics lab, automotive system simulation lab, CAD/CAM center and automotive designing and styling center. The department also offers testing and consultancy in automobile related fields.

PACE

The department was instrumental in getting the institution selected as a member of the Partners for the Advancement of Collaborative Engineering Education (PACE). As such PSG College of Technology joins an elite group of global PACE institutions that are linked with PACE industrial partners to better prepare the product lifecycle management (PLM) team of the future. PACE is a consortium formed by companies General Motors, Autodesk, Hewlett Packard, Oracle and Siemens PLM software and their global operations, to support strategically selected institutions worldwide to develop the Automotive PLM team of the future. PLM as it relates to PACE is an integrated, parametric-based approach to all aspects of the products life maintenance and finally into recycling and disposal. PACE is a joint initiative of General Motors, Autodesk, Hewlett Packard, Oracle, and Siemens PLM software and 18 other leading global industries. PSG College of Technology has received in-kind contribution worth more than 1500 crores (254 million USD).

KARIVARDHAN CENTER OF EXCELLENCE

The Karivardhan Center of Excellence was instituted in memory of Sri. Karivardhan by his 1976 batch mates of PSG Tech. He graduated from PSG College of Technology, Coimbatore in BE Mechanical Engineering in 1976. He completed his higher studies in Design Engineering at USA. The center houses two VCR engine performance capable of testing multifuels for various compression ratios. Also, a transmission testing facility system is available for testing durability of gears.

PSGTECHS COE INDUTECH

Department of Textile Technology and Automobile Engineering PSG College of Technology have setup a Center of Excellence (COE) in Industrial textiles (INDUTECH) with funding from the Ministry of Textiles under Technology Mission on Technical Textile (TMTT) for the promotion of technical textiles with Rs.24.5 crores for establishing facilities like product development facilities, training and information center facilities. Laboratory for testing all kinds of Technical Textile and the latest state of art Technical Textile machine capable of producing Technical Textile products. This center is useful for industries, research scholars, entrepreneurs and academicians.

FUELCELL LAB

The fuel cell laboratory provides advanced facilities to help the students to learn the concepts of fuel cell technology and advanced thermal engineering. Many projects regarding the Fuel Cell and Thermal Engineering are being carried out by students.
ABOUT THE CONFERENCE

This national conference is the 10th in the series of advances in automotive technology (NCAAT 2020) being organized on 20th March, 2020 at PSG College of and Technology, Coimbatore, Tamil Nadu 641004. NCAAT 2020 will provide an outstanding national forum for sharing knowledge and results in all fields of Automobile Technologies. NCAAT 2020 provides quality key experts who provide an opportunity in bringing up innovative ideas. Recent updates in the in the field of Automobile Technologies will be a platform for the upcoming researchers. The conference will be complete, concise, clear and cohesive in terms of research related to Automobile Advancement Technologies.

The main objective of the conference is to create an opportunity for the post graduate students in engineering to present technical papers related and relevant to the automotive domain. It is a great opportunity for post graduate students to present their research work which will be published in the conference proceedings. This conference is open for all the post graduate students, research scholars and engineers from technical research laboratories and Industries.

CENTRE OF EXCELLENCE ON ELECTRIC AND HYBRID VEHICLE

The Department of Automobile engineering has to set up a COE on Electric and hybrid vehicles with industrial Partners like Jayem Automotive, Amara Raja Batteries, Robert Bosch, and Faurecia. Also this COE has academic support from Clemson University International Center for Automotive Research (CUICAR), USA to get the academic expertise. In this COE, three verticals on Electric and Hybrid Vehicles Research namely Motor Performance Characteristics Evaluation, Battery Characterization and Vehicle Performances Studies will be carried out.

INTERACTION WITH OUTSIDE WORLD

The Department interacts with leading automotive OEM's and Tier1 & 2 suppliers like Daimler, Robert Bosch, Roots Industries, Jayem Automotive, Faurecia Emission Control Technologies, Valeo, Pricol etc. Also, the department has tied up with leading industries for training, research, to setup Center of Excellences, student Internships, consultancy works and joint funded projects. The department offers consultancy work on Fuel Cell coatings. The department has signed MOU with Clemson University, one of the leading automotive schools in USA for the MS programmes. Every year five students exclusively from PSG are selected to pursue MS by CUICAR with funding from TATA group. The department also interacts with other overseas institutions like Esslingen and RWTH Aachen (Germany), Glasgow University and Loughborough (UK), Toledo University (USA). Automobile Engineering Department motivates students to involve in co curricular activities like SAE BAJA, Formula Student and PACE Competitions to gain hands-on experience to build a car at national and international levels and which are sponsored by leading automotive manufactures.

CALL FOR PAPERS

The abstract and final paper submission should be made electronically in MS WORD in IEEE format and emailed to conference.auto@psgtech.ac.in. The total number of pages should not exceed six. All the selected papers will be included in the proceedings of the conference.

THRUST AREAS

Papers are invited from the following areas, topics, but are not limited to:

- Hybrid and Electric vehicles
- Design and Analysis of-
- Automobile components.
- Automotive electronics
- Fuel cells
- Automotive Materials
- Additive Manufacturing / 3D printing
- Manufacturing of Automobile components
- Vehicle Service and Maintenance
- Automotive Ergonomics
- Automotive Safety
- Automotive Engines
- Automotive Transmission
- Combustion Technology
- Automotive Quality Technology
- Noise Vibration and Harshness
- Connected vehicles and autonomous cars
**Dates**

Submission of Abstract for review : 06.03.2020  
Submission of manuscript for review : 10.03.2020  
Confirmation of acceptance of paper  
Final submission of paper : 15.03.2020  
Last date for registration : 17.03.2020

**Registration Fee**

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<th>Category</th>
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*Registration fees inclusive of GST.  
*Registration fees to be paid through DD to PSGCNCE payable at coimbatore.  
*Confirm your registration through registration form available at conference.auto@psgtech.ac.in

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**Contact**

Dr. P.K. Rajesh / Mr.R.Suresh Kumar / Mr.J.Niresh  
Department of Automobile Engineering, 3rd floor,  
K-Block, PSG College of Technology,  
Coimbatore – 641004.  
0422-4344281, 4282, 4344777  
conference.auto@psgtech.ac.in