AICTE Sponsored

Six Days Online
Short Term Training
Program on
DISRUPTIVE TECHNOLOGY – DRIVEN
TRENDS IN THE
AUTO INDUSTRY

Organized by
DEPARTMENT OF AUTOMOBILE
ENGINEERING
PSG College of Technology
Coimbatore – 641 004

SERIES: 1
22 – 27 February 2021

Organizing Committee
Chairman: Dr. K. Prakasan
Principal In-charge
PSG College of Technology

Coordinator: Dr. S. Neelakrishnan
Professor & Head
Department of Auto Engg.

Co-coordinators: Dr. M. Subramanian,
Associate Professor
Department of Auto Engg,

Dr. J. Niresh
Assistant Professor (Sr.gr)
Department of Auto Engg,

Registration
Participants should register online in the link
https://forms.gle/vhzkYQ5HugSwEcyX9
or
scan here for Registration

Important Dates
Last date for registration: 14/02/2021
Confirmation of participants: 16/02/2021

Resource persons
Experts from various Government Organizations, Industry and Academic Institutions

Eligibility
The STTP is open to all faculty members from AICTE approved institutions, research scholars, participants from Government organizations and Industries.

Instructions to Participants
The STTP will be conducted in Online mode through Google Meet. Participants willing to participate in this online STTP should have the provision of laptop/desktop/smart phone with good quality internet connection and other audio-visual facilities, as required for online training.

Registration is free for all participants
The participants are selected by organizers on first come first serve basis. Shortlisted candidates will be informed through their registered email Id. On completion of the course an online objective test/quiz-based assessment will be conducted. Those who have an attendance of minimum 80% and score more than 60% in the test will be issued a digital certificate.

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THE INSTITUTION
PSG College of Technology, an institution of academic excellence, was founded in the year 1951 by PSG & Sons’ Charities Trust. PSG College of Technology an AICTE approved institution is affiliated to Anna University and ISO 9001 certified. Most of our programmes have been accredited by National Board of Accreditation (NBA). One unique feature at PSG College of Technology is the close collaboration with industry, resulting in the cross fertilization of theory with practice. PSG College of Technology is currently ranked 29 in latest NIRF ranking & NAAC accredited.

THE DEPARTMENT
The Automobile Engineering department was established with an undergraduate programme in Automobile Engineering in 1999 and postgraduate programme in Automotive Engineering in 2009. The department also offers doctoral research programme. The department maintains a close liaison with a number of Universities and Industries within and outside the country through faculty research and collaborative projects. The department offers consultancy services in Chassis Design, Engine Design, FEA analysis, and CFD simulations. The department has established PACE laboratory with contributions from GM, Autodesk, HP, Oracle, Siemens PLM to develop the automotive product lifecycle management expertise. Faculty members are publishing in highly reputed international, national journals and in conferences. The department has got six years accreditation by NBA.

AICTE
All India Council for Technical Education (AICTE) was set-up in November 1945 as a national level Apex Advisory Body to conduct survey on the facilities on technical education and to promote development in the country in a coordinated and integrated manner. And to ensure the same, as stipulated in the National Policy of Education (1986), AICTE be vested with statutory authority for planning, formulation and maintenance of standards and norms, quality assurance through accreditation, funding in priority areas, monitoring and evaluation, maintaining parity of certification and awards and ensuring coordinated and integrated development and management of technical education in the country.

About the STTP
Teaching-Learning is an important process in academic institutions. Transfer of knowledge takes place from the teachers who need orientation and training in effective teaching. As a service to the teaching community in the engineering institutions AICTE sponsors a number of programmes to enrich the skills and knowledge. This STTP will be an excellent opportunity to listen from the experts in the respective fields and also to discuss about the current technologies and futuristic trends. It has become important for the educators and practicing engineers to continuously upgrade their knowledge and skills in evidence-based practice strategies, small group facilitation, active lecturing, and the productive use of technology which also helps the researchers and faculty members to update their research skills.

The STTP on Disruptive Technology – Driven Trends in the Auto Industry aims

- To emulate the success of digitization and the advent of electronics in automotive industries.
- To provide insights into the kind of changes that are coming and how they will affect traditional OEMs and suppliers, potential new players, regulators, consumers, national car markets, and the automotive value chain
- At connected lifestyle extending to the car.
- To impart the importance of sensor and processing solutions
- At a paradigm shift to mobility as a service

Course Contents

- Introduction to disruptive technology
- Driven trends
- Autonomous driving
- Block chain Technologies
- Electric vehicles
- Vehicle to Vehicle communication
- External factors
- Soft computing techniques
- Progressive vehicle differentiation
- Cloud computing and machine learning
- Cognitive capabilities
- Architectural change
- Safety System
- Emissions Technologies
- Light weighting
- Power train electrification
- Vehicle electronics
- Automotive Infotronics
- Vehicle Development process
- Cloud Computing Technologies for Auto industry