

Event Report

Three Days Workshop on Power Electronics and Control System

3rd to 5th October, 2018

Sponsored By



Department of Science & Technology
Government of Gujarat

Organized by



Department of Electrical Engineering

G H Patel College of Engineering & Technology, Vallabh Vidyanagar

Power electronics and control systems deal with the study of electric power conversion and its control using microelectronics. This workshop aimed to use different control strategies to control electric drives. Modeling and simulation are essential ingredients for the analysis and design of power converters and electric drives and PID controllers. The objective of the workshop is to impart an in-depth knowledge in the selection and design of power converter circuits. This workshop focuses on the modeling and design of PID controllers, advanced power electronic converters for electric motors using MatLab and SciLab. During the workshop, the participants will get hands on experience with the above specified software packages. The goal of this workshop is to provide an opportunity to understand the concepts of power electronic and fundamentals of control systems using appropriate softwares.

Inaugural Function:

Inaugural function of three days workshop on Power Electronics and Control System sponsored by GUJCOST was held on 3rd October, 2018 at 10:30 AM in Smt. Kamlaben Sankarbhai Seminar Hall, GCET. The workshop was organized by Electrical Department of G H Patel College of Engineering & Technology and Prof. Haresh Suthar, HOD Instrumentation & Control Department, Parul Institute of Technology and Mr. Dishant Shah, Emertech Electronics Systems, Vadodara were the Guest of Honor. The inaugural ceremony was also graced by Dr. Vijay Makwana, Head of Electrical Department, GCET and Prof. Rakesh Patel, Assistant Professor, Electrical Department, GCET.





Day 1:

Three sessions were conducted on first day of this workshop. First and second sessions were conducted by Prof. Haresh Suthar and the third session was conducted by Mr. Dishant Shah.

Session 1:

The first session was conducted by Prof. Haresh Suthar on PID Controllers and its Industrial Applications.



Session 2:

The second session was conducted by Mr. Dishant Shah on PID Controllers and its Industrial Applications.



Day 2:

Three sessions were conducted on second day of this workshop. All sessions were conducted by Dr. Anil Markana on “Concepts of Control Systems & its Industrial Applications”. Dr. Anil Markana is currently working as an Assistant Professor in the Department of Electrical Engineering, Pandit Deendayal Petroleum University, Gandhinagar, Gujarat, India. Dr Markana holds PhD and MTech degree both from systems and control engineering department, IIT Bombay. His research interests are in the area of control systems, process control and multi-objective optimization based model predictive control.

Dr. Markana is the IEEE student branch faculty coordinator at PDPU and one of the biggest achievements of his is the development of process dynamics and control laboratory at PDPU.



Day 3:

Three sessions were conducted on second day of this workshop. All sessions were conducted by Dr. Pranav Darji on “Modeling of Power Converters”. Dr Pranav Darji is currently working as an associate professor in the department of electrical engineering at SVNIT, Surat. He has done his PhD from IIT Bombay and Masters from IISC Bangalore. He is having about 20 years of teaching experience. His research interest includes power system analysis, power system dynamics, HVDC and FACTS controller.



