



POORNIMA

COLLEGE OF ENGINEERING

Department of Electrical Engineering

A Report on Three Day Workshop On AC Drives

On October 8th 2014, Poornima College of Engineering, Dept. of Electrical Engineering conducted a workshop on “AC Drives”. Workshop began with a warm welcome of the guests. Formal welcome of the guest Mr Narendra Laghate, Mr Sunil Yadav, Mr D.N. Pandey from “Prolific Systems and Technology Pvt. Ltd” was done by Dr. Om Prakash Sharma Director, PCE & Sh. Shivraj Sharma HOD, PCE respectively.

Dr. Om Prakash Sharma Director, PCE, while addressing the student highlighted the importance of AC Drives in industries as well as day to day life application. He strongly emphasized on the need of understanding practical and theoretical issues of AC drives in today’s competitive scenario.

Brief description of the workshop was delivered by Mr Nitin Goel, Coordinator & Asst. Prof., EE, PCE.

The workshop was divided into six parts. (2 parts every day including Theoretical and Practical aspects)

DAY-1

- In first session students were introduced to the basics of AC Drives and motors with the aid of related videos and slides by Mr Narendra Laghate, Mr Sunil Yadav and Mr D.N. Pandey.
- The second session was focussed on the selecting criteria of the drive for particular application like speed torque characteristics and different motor parameters for drives such as speed and torque control and types of braking ramp selection and was presented by Mr Narendra Laghate, Mr Sunil Yadav.

DAY-2

- The first session of day 2 was about remote and local operation of variable speed drives and then consistently focussed on communication with PLC, by Mr Narendra Laghate.
- Session second continued on communication with PLC and study of different operational methods like PWM method, flux vector control and vector voltage control on which variable speed drive works.

DAY-3

- Session one of day three started with the explanation of troubleshooting used in case of any Problems.
- The last session was based on case study and summarized different application of drives in the industries by Mr Sunil Kumar Yadav, Mr Narendra Laghate.

- ❖ **The workshop concluded with valedictory session on day three i.e. 10.10.2014, where in workshop co-ordinator Mr Nitin Goel thanks members of “Prolific Systems and Technology Pvt. Ltd.” for delivering such a vital career oriented workshop on AC drives for the students.**

