

## **Electrical machines Lab**

The Electrical Machines Lab is modernized which has 10 workbenches designed and developed after extensive research by consultants and senior professors. Our institution is the first among the polytechnic colleges in Tamil Nadu to introduce the workbenches in the lab exercises.

In each workbench the following are present:

- a. The machines ( DC / AC Motors, Generators )
- b. The measuring instruments (Digital Ammeters, Voltmeters, Milli-Ammeters)
- c. Electrical / Mechanical loads.
- d. Sensors to measure the speed.
- e. Starters to start the machines safely.

### **The methodology adopted in Modern Electrical Machines Lab**

All the equipments necessary to conduct an experiment are available in each workstation and so the student need not run around to collect the meters, load which saves time.

This saves time is better utilized for viva-voce which strengthens the understanding of the subject.

Also, the student is able to conduct more experiments in the given time and thus learning is enhanced.

The faults that occur due to the transportation of meters before and after conducting the experiments are avoided which increases the life of the instruments.

The workbench is very useful for the students doing projects as all the equipments necessary are available in one place(workbench). In Electrical Machines Laboratory the following practical courses are conducted

- i) Electrical Machines I practical
- ii) Electrical Machines II practical
- iii) Control of electrical machines practical
- iv) Electrical Circuits practical