

Labs

Labs play a very critical role in technical education. Almost every topic taught during lecture has a corresponding experiment. IIMT college of polytechnic pays great attention to its laboratories and the equipment in them. All the departments at IIMT college of polytechnic are equipped with state of the art laboratories and workshop to ensure that the students learn practical aspects of Engineering. The faculty members are actively engaged in the research and development activities with technical support of various industries.

Laboratories in Electrical Department

BASIC ELECTRICAL ENGINEERING LABORATORY:

This laboratory is the most basic and essential laboratory, which is being used not only by the students of electrical engineering but also by the students of first year of all branches of engineering and technology. This laboratory is well equipped with state of the art equipment in order to perform the whole gamut of experiments as per the prescribed syllabus of the course on basic electrical and electronics engineering.

ELECTRICAL MACHINES LABORATORY:

This laboratory has the electrical machines of rating from few H.P.to 25 H.P. The laboratory has all types of machines, their simulated models and very high level applications related to the electrical machines can be developed in this laboratory.

ELECTRONIC CIRCUIT LABORATORY

This laboratory explores the design, construction, and debugging of analog electronic circuits, investigate the performance characteristics of semiconductor devices (diodes, BJTs and MOSFETs) and functional analog building blocks, including single stage amplifiers, op amps, small audio amplifier, filters. Lectures and laboratory projects of the course are devoted to the design, implementation of a project in an environment similar to that of engineering design in industry.

INDUSTRIAL ELECTRONICS & CONTROL LABORATORY:

This laboratory has general purpose power electronics trainer. All types of power electronic experiments like AC to DC converter, DC to AC Converter, drive control etc. can be performed in this laboratory. Complete experimentation and analysis on AC & DC drives can be done in this laboratory.

This laboratory is equipped with 8085/8086 microprocessor and microcontroller like 8051. In addition to this laboratory has number of interface module like temperature controller. The laboratory is equipped with dedicated control kits like DC/AC position control.

ELECTRICAL DRAWING & DESIGN LABORATORY:

This laboratory has all basic tools needed to develop applications related to the electrical engineering. The undergraduate students develop their projects in this laboratory. This laboratory is equipped with electrical terminals, soldering iron, transformers, electrical wires, fuses, switches, drilling machine, wooden boards, cutter, pliers, pincers, hammers etc.

ELECTRICAL MEASUREMENT LABORATORY:

This laboratory consists of various electrical & electronics measurement devices like CROs, multi meter, potentiometer, voltmeter, frequency meter, ammeter etc.

1. Electrical Machine-1 lab



2. Electrical Machine-2 lab



3. Electrical Measuring Instrument lab



4. PLC, Microcontroller and SCADA lab



5. Industrial Electronic Control lab



