

Machine Lab (2nd 3rd and 4th Power & Machine)

Electrical Machine Laboratory is the one the oldest and important laboratory of Electrical Engineering Department. It is conducted for the undergraduate students in their second, third and fourth year. In the lab students study, learn & perform the basic experiments on different types of electrical machines such as single phase Transformer, DC Machines, three-phase Transformers, three phase and single phase Inductions motors, alternator, Synchronous machines and other special machines.

The High Voltage Laboratory (4th Power & Machine)

The High Voltage Laboratory is undergraduate teaching laboratory for fourth year, which is [an indoor laboratory](#). It specialises in the measurement and testing of equipment and components of Electric Power Engineering. Teaching laboratories include studying the breakdown of air under varying atmospheric conditions, especially moisture, varying supply voltage and frequency and under multiple insulation arrangements. The laboratory exercise involves the measurement of transformer insulation condition using a high voltage capacitance and dissipation factor test set. The High Voltage Laboratory testing facilities are based around two major pieces of equipment, namely an impulse generator and a HVAC testing transformer. These allow controlled testing of equipment and material insulation, such as under dry and wet conditions, while testing can be undertaken according to standards requirements.

An authorized user of the laboratory will normally hold a B.E degree, and will assume responsibility for the safe operation of equipment and the safety of personnel in the area under use.