

Lab facilities for School of Engineering

Department of Electrical Engineering

1. Electrical Technology Lab

- Advanced DC Shunt Motor Kit
- Auto Transformer
- Auto Transformer (3-Phase)
- Cathode Ray Oscillator
- CRO Demonstrator
- Digital Multimeter
- Function Generator
- House Wiring Training Kit
- Network Theorem Trainer Kit
- Transformer Kit
- Work Bench Station

2. Electrical Machine Lab

- DC Motor
- Single Phase Transformer
- Three Phase Transformer
- Synchronous Generator Trainer
- Three Phase Induction Motor
- Single Phase Induction Motor
- Slip Ring Motor
- Synchronization of Alternators
- CAI Labs Software for Electrical Machine
- OPEN LAB
- DSPACE

3. Power System Lab

- Earth Fault Relay
- Electromechanical Type IDMT Relay Trainer
- Electromechanical Type Over / Under Voltage Relay Trainer

- Microcontroller Based IDMT Over Current Relay Trainer
- Microcontroller Based Over / Under Voltage Relay Trainer
- Power System Simulator
- Real Time Digital Power Simulator
- Reverse Power Relay
- Matlab 2010
- DIgSILENT, Power Factory Toolbox
- Power World
- NPLAN
- PSCAD

Department of Mechanical Engineering

1. Mechanical Workshop

a) Machine Shop/Manufacturing Technology Lab

- 3 D Optical Profilometer
- Bench Grinder
- CNC Machining Center
- Double Ended Pedestal Grinder
- Drilling Machine
- Gear Hobber
- Hydraulic Power Hacksaw
- Lathe Machine
- Machine Tools-Turning, Boring, Threading, Knurling, Power Saw Blade, Reamers, Milling Cutters, Shaper, Slotter, Tool Kit Etc.(For All Machine Tools)
- Radial Drilling Machine
- Shaping Machine
- Slotter Machine
- Surface Grinder
- Universal Milling Machines
- Universal Milling Machines
- Universal Tool And Cutter Grinder

b) Welding Shop

- Arc Welding Machine
- Metal Inert Gas (Mig) Welding Machine
- Tungsten Inert Gas (Tig) Welding Machine

- Multipurpose Arc Welding Table With Positioner Cum Welding Booth And Fume Extractor
- Submerged Arc Welding Machine-800 Amp (Tractor Mounted Trolley Type)
- Micro Plasma Welding
- Laser Welding
- Oxy-Acetylene Gas Welding Set
- Electrode Drying Oven
- Magnetic Particle Tester
- Microscope And Image Analyzer
- Electro Polisher
- 3 D Optical Profilometer

c) Smithy & Foundry Shop

- All Foundry And Smithy Shop Hand Tools
- All Foundry And Smithy Shop Measuring Tools
- High Precision Weighing Balance
- Induction Furnace For Melting
- Induction Furnace For Heat Treatment
- Metal Melting Crucible
- Metal Melting Crucible
- Universal Vice
- Weighing Balance

d) Sheet Metal & Carpentry Shop

- All Measuring Tools Used In Sheet Metal And Carpentry Shop
- All Sheet Metal Hand Tools
- All Wood Working Hand Tools
- Hydraulic Power Press
- Press Dies