

MAJOR EQUIPMENTS IN LABORATORY / WORKSHOP

1) ELECTRICAL ENGINEERING

- DC M-G Set.
- DC Series motor
- D. C. shunt generator- for O.C.C. test
- D.C Network analyser
- Experimental set up for load tests and calculation of regulation and efficiency Of transformer
- Experimental kit for input & transfer characteristics of FET.
- Heat run test of a single phase transformer
- Parallel operation of two single phase transformers
- Experimental trainer kit for RC phase shift oscillator for different cut off frequencies.
- C.T. & P.T. testing trainer kit
- 3 ph, 415 / 240 V, 3 KVA Transformer with all terminals brought out for different connections
- Current differential relay , IDMT type 3 phase transformer with fault creation arrg.
- Calibration of 3 Phase energy meter
- Network Theorem Trainer-I: i) Norton's Theorem ii) Superposition theorem iii) Reciprocity Therorem
- Network Theorem Trainer-I: i) Thevenin's Theorem ii) Maximum Power Transfer Theorem iii) Tellengen's Therorem
- Parallel operation of two single phase transformers
- Slip ring I/M 3 hp,400v,1500 rpm to determine effect of rotor resistance on T/S curve
- Set up for Open circuit Test & short circuit test of transformer
- 3 phase induction motor for load test
- Analog module for PLC
- Digital Storage Oscilloscope (70 MHz)
- Function Generator
- PLC Trainer
- Traffic Light Control: PLC Application
- A kit of Basic Electricity & Electronics components
- D.C. power supply,-i/p-440v,3 phase, 50 Hz. o/p-220V/110 V,50A, D.C.
- Setting up of Wired and Wireless LAN

2) MECHANICAL ENGINEERING

- Universal Testing Machine
- Charpy & Izod Impact Testing Machine
- Rockwell Hardness Testing Machine
- Bomb Calorimeter
- Sine Bar (250 mm)
- Shaping Machine
- Hydraulic Power Saw
- Power Planner
- Speed Drill
- Depth Micrometer, (Metric Standard),
- Dial Bore Gauge with Dial Indicator,
- Dial Indicators, (Metric Standard)
- Digital Caliper, (Metric / Inch Standard),
- Digital Height Gauge, (Metric Standard),
- GO, NO GO Plain Plug Gauge,
- Inside Micrometer,
- Vernier Caliper, (Metric / Inch Scale),
- Vernier Height Gauge, (Metric / Inch Scale)
- Oxy-Acetylene Gas Welding Set: A) High Pressure Welding Blow Pipe ,
Six Tip Sizes, For Welding M. S. Plate Up To 10 mm Thick
- Top And Bottom Swage With Handle, Round (Standard Size)
- Top And Bottom Fuller (Standard Size) With Handle
- Shovel (Small): Length – 800 Mm.
- Hot Chisel & Cold Chisel With Handle (Standard Size)
- Anvil: Single Horn 150 Kg Malleable Cast Iron With Stand English Type
- Fuller (Standard Size)
- Leg Vice: 15 cm Size .
- Number Punch Set 0 To 9 Size ¼" (Venus/ Isi Marked)
- Wood Turning Lathe Standard Tool Set (Taparia)
- Vernier Caliper (0 – 150 Mm), Least Count: 0.02 Mm
- Rip Saw With Wooden Handle, 18" (Taparia/Pye/Veritas/ ISI Marked)
- Mallet, Handle 300 Mm, Wt.- 350 Gm. (Teak Wood) (Taparia/Pye/
Venus)
- Raps File, 300 Mm (Jk)
- Tap Set (4 mm, 6 mm, 8 mm, 10 mm, 12 mm) With Handle