

ADVANCED INFRASTRUCTURE

II-B.Tech I-Semester

S.No	Lab	Equipments Installed
1	Electrical Machines-I Lab	DC Machines(DC M-G Sets, DC Series motors, DC Shunt motors, DC Compound Motors). Additional components required to conduct the experiments.
2	Electrical Circuits Lab	Series & Parallel Resonance, Locus Diagrams, Self & Mutual Inductances, Network Theorems Kits. Additional components required to conduct the experiments.

II-B.Tech II-Semester

S.No	Lab	Equipments Installed
1	Electrical Machines-II Lab	1-Ph Transformer(2 KVA & 3KVA), 3-Ph Auto Transformer, 1-Ph & 3-Ph Induction Motors, DOL Starter, Silent Pole Synchronous Machine, Synchronous Motor, 3 Ph Alternator. Additional components required to conduct the experiments.
2	Control Systems Lab	BLead-Lag, Time Response of Second Order System, P, PI, PID Controllers,Magnetic amplifier, Ac Servo Motor, DC Servo Motor, Synchronos.

III-B.Tech I-Semester

S.No	Lab	Equipments Installed
1	Electrical Measurements Lab	1-Ph Energy Meter, Dynamometer, DC Potentiometer, Bridges, 3-Ph Auto Transformer, 3-Ph R,L Loads, LVDT, Strain Guage, % error in CT, Measurement of choke coil
2	Basic Electrical Simulation Lab	P Spice software, MATLAB 7.0

III-B.Tech II-Semester

S.No	Lab	Equipments Installed
1	Power Electronics Lab	Gate firing circuits for SCR's, 1-Ph AC Voltage Controller with R and RL Loads, 1-Ph fully controlled bridge converter with R and RL loads, Forced Commutation circuits, DC Jones chopper with R and RL Loads, 1-Ph Series & Parallel, inverter with R and RL loads, Single Phase Cycloconverter with R and RL loads, Single Phase dual converter with RL loads.
2	Power Systems Lab	Relays, Protection schemes of transformer and generator

IV-B.Tech I-Semester

S.No	Lab	Equipments Installed
1	Electrical Measurements Lab	1-Ph Energy Meter, Dynamometer, DC Potentiometer, Bridges, 3-Ph Auto Transformer, 3-Ph R,L Loads, LVDT, Strain Guage, % error in CT, Measurement of choke coil
2	Electrical Systems Simulation Lab	P Spice software, MATLAB 7.0



Electrical Circuits Laboratory



Electrical Machines I Laboratory



BEE Laboratory



Electrical Machines II Laboratory



Power Electronics Laboratory



Simulation Lab



Electrical Measurements Laboratory



Power system laboratory



Control System Laboratory