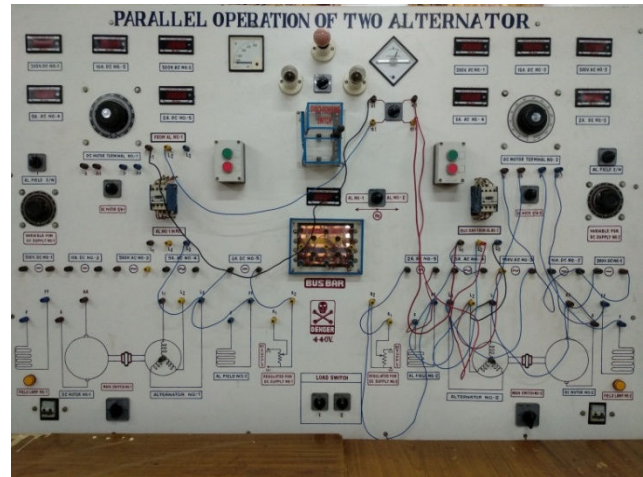


MAJOR LABORATORIES

The Department of Electrical Engineering is core engineering discipline and is of rigorous practical analysis. The department has well equipped Laboratories and logical reasoning is stressed in all practical applications. With highly talented faculty, the department boasts of a unique mode of learning, one that uses advanced aids for teaching.

Some of the laboratories are provided with Internet facility and some laboratory are air conditioned.

Electrical Machines AC Laboratory



Major Equipments/Instruments

2HP, 1- ϕ INDUCTION MOTOR
1.5kw 3- ϕ SQUIRREL CAGE INDUCTION MOTOR
3 kw 3- ϕ SLIP RING INDUCTION MOTOR
3-PH SQ CAGE IM-ALTERNATOR SET
3-PH POLE CHANGING MOTOR
DC MOTOR-ALTERNATOR SET
SYNCHRONIZATION OF TWO ALTERNATORS
.75KW 1-PH OPEN IM
2 KVA 1-PH TRANSFORMER
415V,50ARECTIFIER FOR DC MOTOR
3-PH AUTO TRANSFORMER
3-PH. VARIABLE LOAD BOX (R+C +L)
NON CONTACT TYPE TACHOMETER
AMMETER
VOLTMETER
WATTMETER

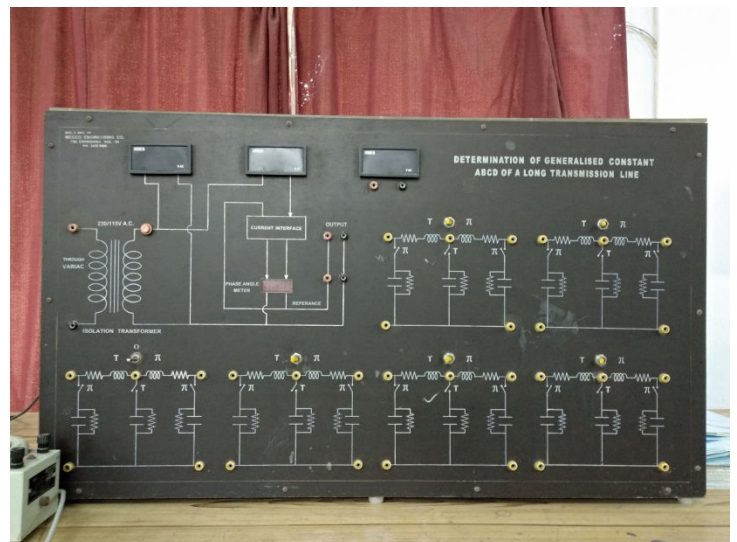
Electrical DC Machines Lab



Major Equipments/Instruments

1.5KW DC SERIES MOTOR
2HP DC MOTOR-GENERATOR SET
415V,50ARECTIFIER FOR DC MOTOR
1.5KW DC MOTOR-GENERATOR SET
RHEOSTAT (100OHM,10A)
RHEOSTAT (2 MEG OHM,2A)
AMMETER
VOLTMETER
OPEN DC MACHINE

Power Systems Lab



Major Equipments/Instruments

SET UP OF TRANSMISSION LINE POWER CIRCLE DIAGRAM WITH 3-PH. VARRIAC
SET UP OF GENERALISED ABCD PARAMETER OF LONG TRANSMISSION LINE
SET UP OF DC DISTRIBUTION BY NETWORK ANALYZER
BDV TEST OF INSULATING OIL
SOLID INSULATION TESTER
TAN-DELTA & RESISTIVITY TESTER OF TRANSFORMER OIL
DIGITAL EARTH TESTER
PIN,DISC,SCAKLE POST TYPE INSULATOR,ARRESTOR, TRANSFORMER BUSHING
SPHERE GAP APPARATUS WITH HV TEST SET & ACCESSORIES
3PH RESISTIVE LOAD FOR ALTERNATOR
SET UP OF C.T & P.T.
SETUP FOR OVER CURRENT RELAY WITH ACCESSORIES
SETUP FOR OFF-LOAD & ON-LOAD RELAY WITH ACCESSORIES
SETUP FOR ON-LOAD, OFF LOAD, EARTH FAULT AND UNDER VOLTAGE RELAY
CLAMP ON PROBE
INSULATION RESISTANCE TESTER
HIGH VOLTAGE PROBE
ACTIVE & REACTIVE POWER CONTROL OF DC MOTOR- ALTERNATOR SET
ELECTRONIC MEGGAR
DIGITAL TONG TESTER
AC CURRENT / LEAKAGE CLAMP ON METER

Basic Electrical Engineering Lab

Major Equipments/Instruments

SET UP FOR MEASUREMENT OF POWER IN 3 -PH. 4 WIRE CIRCUIT BY 2-WATTMETER METHOD

SET UP OF CALIBRATION OF AMMETER & VOLTMETER
NETWORK THEOREM SETUP
STUDY OF LCR CKT WITH AC CURRENT
VARIFICATION OF CKT. THEOREM SET (SUPERPOSITION)
VARIFICATION OF CKT. THEOREM SET (THEVENIN'S)
TO MEASURE THE ARMATURE &FIELD RESISTANCE OF A 1/2 HP DC MOTOR
3-PH.IM USING DOL(DIRECT ON LINE) & STAR-DELTA STARTER
DETERMINATION OF OCC OF A DC SHUNT M/C
STARTING & SPEED CONTROL OF A DC SHUNT MOTOR
DC POWER SUPPLY OF UNIT CAPACITY 10A,240 V
OC & SC TEST OF 1-PH.TRANSFORMER
CONNECTION & POWER MEASUREMENT OF A FLUROSCENT LAMP
SETUP FOR V – R CHARACTERISTICS OF INCANDESCENT LAMP.

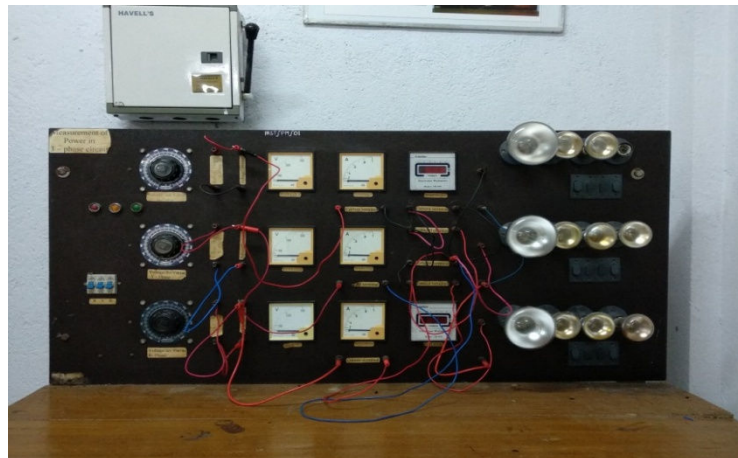
Circuit Theory & Networks Lab



Major Equipments/Instruments

DUAL TRACE ANALOG OSCILLOSCOPE
DIGITAL STORAGE OSCILLOSCOPE
ANADIGI KIT
FUNCTION GENERATOR
(5V,15V,30V) DC POWER SUPPLY
DIGITAL LCR METER
DECADE INDUCTOR BOX
TRANER KIT(CLASS- A, CLASS- B, CLASS- C AMPLIFIER)
MULTIMETER

Electrical and Electronic Measurements Lab



Major Equipments/Instruments

ANDERSON BRIDGE SETUP
DESAUTY BRIDGE SETUP
CALIBRATION OF 1-PH. ENERGY METER
KELVIN DOUBLE BRIDGE SETUP
SCHERING BRIDGE SET UP

CALIBRATION OF AMMETER.& VOLTMETER USING POTENTIOMETER
WEIN BRIDGE SET UP
INSTRUMENT TRANSFORMER (C.T & P.T.)

POWER MEASUREMENT IN 3-PH. CIRCUIT
REGULATED D.C. POWER SUPPLY (15 - 300 V)

Control Systems Lab



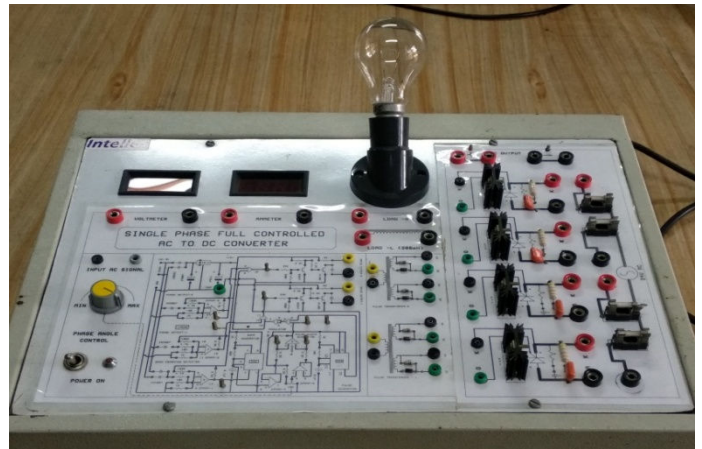
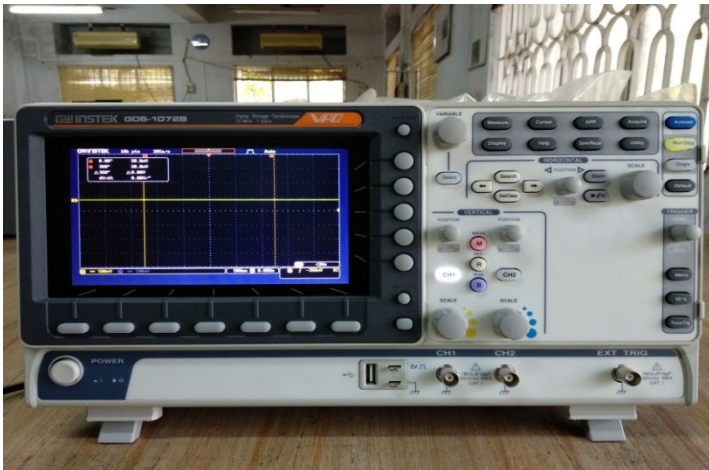
Major Equipments/Instruments

COMPUTER PENTIUM (R) 4CPU 3GHZ, 2.99GHZ, 504MB OF RAM

UPS

PROJECTOR

Power Electronics Lab



Major Equipments/Instruments

EXPERIMENTAL SET UP FOR OPERATING & SWITCHING CHARACTERISTIC OF BJT , GTO , MOSFET , IGBT
SINGLE PHASE FULL WAVE FULL CONTROLLED AC-DC CONVERTER/ RECTIFIER

EXPERIMENTAL SET UP FOR V-I CHARACTERISTIC OF SCR

EXPERIMENTAL SET UP FOR V-I CHARACTERISTIC OF TRIAC

DIFFERENT TRIGGERING CIRCUIT OF SCR

SINGLE PHASE HALF CONTROLLED FULL WAVE BRIDGE CIRCUIT

UJT BASED SCR FIRING CIRCUIT TRAINER

DIGITAL STORAGE OSCILLOSCOPE

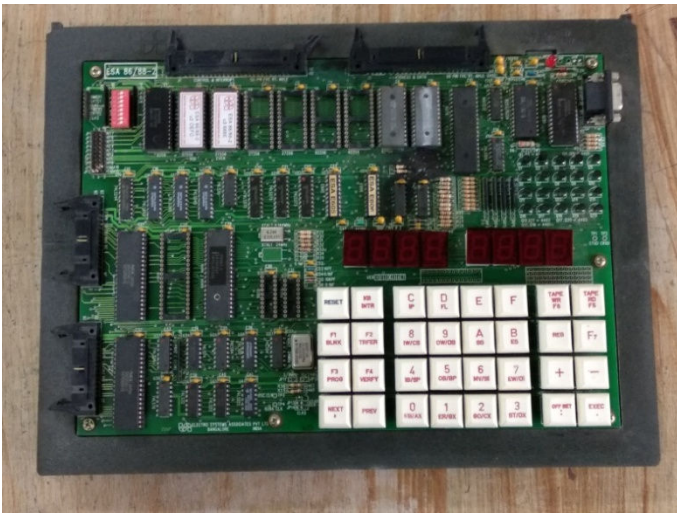
MULTIMETER

Electric Drives Lab

Major Equipments/Instruments

SINGLE PHASE THYRISTOR CONTROLLED DC DRIVE
CHOPPER MOTOR CONTROLLER WITH DC SERIES MOTOR
DC DRIVE EXPERIMENTAL SET UP USING DUAL CONVERTER
CYCLOCONVERTER BASED INDUCTION MOTOR CONTROL TRAINER (SINGLE PHASE)
PROGRAMABLE LOGIC CONTROLLER WITH 16-CH IP/OP
DIGITAL STORAGE OSCILLOSCOPE
COMPUTER
UPS

Microprocessor Lab



Major Equipments/Instruments

MICRO CONTROLLER 8051 KIT, UNIVERSAL PROGRAMMER
8085 MICROPROCESSOR KIT
8086 MICROPROCESSOR KIT
STEPPER MOTOR CONTROL CARD, ADC / DAC
7- SEGMENT DISPLAY INTERFACING CARD