



Hindusthan College of Engineering and Technology
Coimbatore 641 032
Department of Electrical and Electronics Engineering

UG: B.E., EEE

POWER ELECTRONICS LABORATORY

• Power Electronics Lab

Course:

Power Electronics Lab

Total cost of the equipments: 4.4 lakhs

Area: 150 sq.m



List of Equipments

S.NO	Name of the Equipment
1	SCR,MOSFET,IGBT & TRIAC-STATIC CHARACTERISTICS MODULE
2	R, RC & UJT FIRING MODULE
3	CHOPPER CIRCUIT MODULE
4	SINGLE PHASE BRIDGE CONVERTER WITH R, RL LOAD
5	THREE PHASE HALF & FULLY CONTROLLED BRIDGE CONVERTER
6	SINGLE PHASE CYCLO CONVERTER
7	THREE PHASE 1 KVA ISOLATION TRANSFORMER
8	SINGLE PHASE SERIES INVERTER
9	SINGLE PHASE PARALLEL INVERTER
10	AC PHASE CONTROL USING SCR, TRIAC & DIAC
11	IGBT MODULE
12	RESISTIVE LOAD LOADING RHEOSTAT
13	CHOPPER CIRCUITRY MODULE
14	PWM INVERTER CONTROL MODULE
15	CATHODE RAY OSCILLOSCOPE(30 MHZ)
16	CATHODE RAY OSCILLOSCOPE(20 MHZ)
17	SINGLE PHASE SCR BRIDGE WITH FRACTIONAL HP 12V DC MOTOR
18	IGBT BASED SINGLE PHASE PWM INVERTER
19	IGBT BASED THREE PHASE PWM INVERTER
20	RESONANT DC TO DC CONVERTER
21	VI CHARACTERISTICS OF SCR
22	DYNAMIC CHARACTERISTICS OF SCR & MOSFET
23	VI CHARACTERISTICS OF TRIAC
24	IGBT & MOSFET CHARACTERISTICS STUDY TRAINER
25	DC-DC BUCK-BOOST CONVERTER TRAINER
26	HIGH VOLTAGE POWER SUPPLY(0-300)V
27	STEP DOWN AND STEP UP MOSFET BASED CHOPPER
28	IGBT BASED HIGH SWITCHING CHOPPER
29	SCR AND TRIAC BASED AC VOLTAGE CONTROLLER