



### Specifications

- Covers different power electronics devices i.e. thyristors
- On-board passive and active components
- External AC / DC power supply
- On-board variable DC supply • AC supply, ranging from 0 ~ 30 V AC / 50 Hz, DC supply of +15V
- Characteristics study of different types of power electronics Devices i.e. thyristors ( SCR, TRIAC, DIAC ), UJT, MOSFET, etc.
- Application study of different types of power electronics Devices i.e. thyristors (SCR, TRIAC, DIAC ) and MOSFET
- Different gate-pulsing circuits (turn-on methods)
- Different commutation circuits (turn-off methods)
- Different IC's for gate triggering circuits
- Provision of free wheeling diodes
- Resistor bank
- Capacitor bank
- Inductor bank
- Potentiometer bank
- Interconnection points
- Interconnection cords

### Experiments

#### Using SCR

- Study of single-phase half wave control
- Study of full wave controlled rectifier
- Study of single-phase DC to AC inverter
- AC power flasher using SCR
- Lamp Dimmer Circuit using DIAC-TRIAC
- DC to DC converter (dual)
- Low voltage lamp flasher using PUT and SCR
- LED flasher using SCR and UJT
- Study SCR triggering using Ic555
- SCR time delay relay
- Many more

Note: Specifications are subject to change.