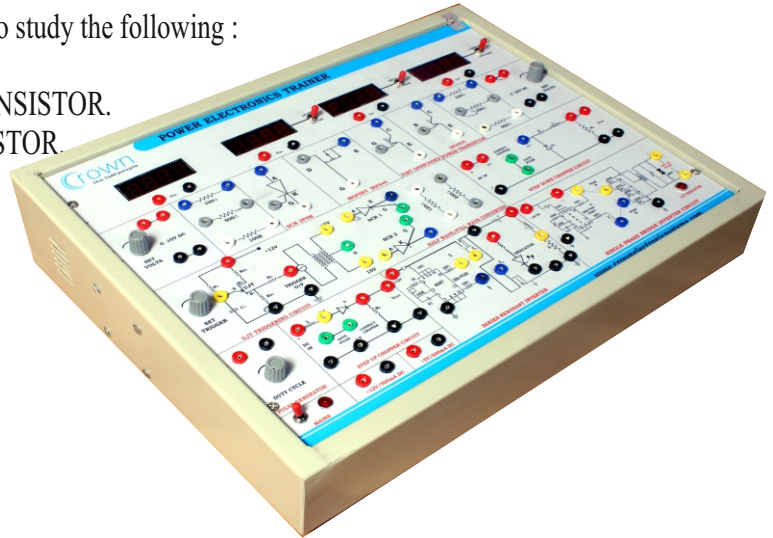


CEE 2026

POWER ELECTRONICS TRAINER

“CROWN” made “POWER ELECTRONIC TRAINER” to study the following :

- 1) Characteristics of SCR, MOSFET, IGBT & POWER TRANSISTOR.
- 2) Triggering of SCR, MOSFET, IGBT & POWER TRANSISTOR.
- 3) UJT trigger circuit for half wave & full wave converter.
- 4) STEP UP & STEP DOWN Chopper Circuits.
- 5) Series resonant inverter.
- 6) Single phase bridge inverter.



The instrument comprises of the following:-

- 1) DC Regulated Power Supply
 - a) 0-10V/50mA
 - b) 0-25V/50mA
 - c) +12V/500mA
 - d) +5V/500mA
- 2) 4No. Digital Meters
 - a) 19.99VDC
 - b) 19.99V-199.9V DC
 - c) 199.9 μ A - 19.99mA DC
 - d) 1.999mA - 199.9mA DC
- 3) Pulse Generator Circuits
 - a) Variable duty cycle pulse generator for chopper circuits.
 - b) 1KHz +ve & -ve edge generator for series inverter.
 - c) 50Hz +ve & -ve edge pulse generator for series inverter.
 - d) UJT trigger circuit for half wave & full wave converter.
- 4) 3 No. SCR (2P4M), 1 No. MOSFET (IRF840), 1NO. IGBT (GP8NC60KD).
1No. POWER TRANSISTORS (2N3055) & 8No. different resistance.
- 5) Seprate circuits for half wave / full wave converters, choppers & inverters.

OPTIONAL ACC.

- * DC-10MHz Single Trace Oscilloscope.