



**36363** Experimental Training Board has been designed specifically for plotting the forward and reverse bias characteristics of a semiconductor Diode (Ge & Si), Zener Diode & LED.

The board is absolutely self contained and requires no other apparatus.

Practical experience on this board carries great educative value for Science and Engineering Students.

### Object

1. To study and plot the forward & reverse bias characteristics of a Germanium semiconductor Diode.
2. To study and plot the forward & reverse bias characteristics of a Silicon semiconductor Diode.
3. To study and plot the forward & reverse bias (breakdown) characteristics of a Zener Diode.
4. To study the characteristics of Light Emitting Diode (LED).

### Features

The board consists of the following built-in parts :

1. 0-10V D.C. at 10mA, continuously variable regulated Power Supply with low ripple & hum and integral current limiting resistor.
2. Digital Voltmeter DC 3½ Digit Having Dual range of 2V / 20V.
3. Digital Current meter DC 3½ Digit Having Dual range of 20uA / 20mA
4. A Germanium semiconductor Diode mounted behind the panel.
5. A Silicon semiconductor Diode mounted behind the panel.
6. A Zener Diode mounted behind the panel.
7. A Light Emitting Diode (LED) mounted on the panel.
8. Adequate no. of other electronic components.
9. Mains ON/OFF switch, Fuse and Jewel light.
10. The unit is operative on 230V ±10% at 50Hz A.C. Mains.
11. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections / observation of waveforms.
12. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.
13. Weight : 2.300 Kg.
14. Dimension : W 340 x H 125x D210

### List of Accessories:

1. Patch cords stackable 4mm length 50cm Red.....03
2. Patch cords stackable 4mm length 50cm Black.....02

Note: Specifications are subject to change.