Experimental Training Board has been designed specifically for the Study of the Junction Diode Rectifier and Filter Characteristics.

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

Object:

Study of Junction Diode Rectifier & Filter characteristics.

01. Study of Junction Diode Rectifier output and ripple content for different resistive loads for :
    - (a) Half wave.
    - (b) Full wave (Centre Tap).
    - (c) Full wave (Bridge).
    - (d) Voltage Doubler Circuit.

02. Study of filter and load regulation characteristics for half wave and full wave rectifier having different resistive loads and filters of the type
    - (a) Capacitor filter.
    - (b) Capacitor Filter with capacitor value doubled.
    - (c) Inductor filter.
    - (d) Capacitor input L section filter.
    - (e) Capacitor input p section filter.

Features:

The board consists of the following built-in parts :

1. Mains transformer, secondary centre tap 100-0-100V at 100mA.
2. Digital Voltmeter DC 3½ Digit having range of 1000V.
3. Digital Current meter DC 3½ Digit having range of 200mA.
4. Four Silicon Junction Diodes.
5. Filter choke.
6. Adequate no. of other electronic components.
7. Mains ON/OFF switch, Fuse and Jewel light.
8. The unit is operative on 230V ±10% at 50Hz AC Mains.
9. Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ meter.

* Good quality, reliable terminal/sockets are provided at appropriate places on panel for connections/ observation of waveforms.

* Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Other Apparatus Required:

* A.C. Millivoltmeter

Note: Specifications are subject to change.

Tesca Technologies Pvt. Ltd.
IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com
Website: www.tesca.in