Experimental Training Board has been designed specifically to study the Charge and Discharge of a condenser through a resistance using neon bulb.

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

Object:

01.   To study the Charge and Discharge of a condenser through a resistance using neon bulb.
02.   To study the dependence of the period on the source voltage and deducing striking voltage and extinction voltage of the neon bulb.

Features:

The board consists of the following built-in parts :
01.   0-300V D.C. at 20mA, I.C. regulated continuously variable and short circuit protected Power Supply with coarse and fine voltage control.
02.   Digital Panel Meter (for measurement of DC voltage).

Specifications:

Voltage Range	:	0-1000 volt.
Resolution	:	1V.
Accuracy	:	$\pm 0.2\% \pm 2$ digit.
Input Impedance	:	10 M ohms.
Display	:	3½ digit, 7 segment LED (12.5mm height)
Auto	:	Polarity indication.
Over Load Indication	:	Sign of 1 on left and blanking of other digits.

03.   Adequate no. of Resistances and Capacitances.
04.   Neon bulb mounted on panel.
05.   Mains ON/OFF switch and Fuse.
*   The unit is operative on 230V ±10% at 50Hz A.C. Mains.
*   Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.
*   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:
*   Digital stop clock

Note: Specifications are subject to change.

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