

Product Name :
Power Electronics Lab Training Kits**Product Code :**
POWE0004**Description :**

Power Electronics Lab Training Kits

Technical Specification :

To study the characteristics of FET and plot it's V-I Characteristics.
To study the Gate control characteristics of SCR and It's graph.
To study the characteristics of UJT.
To study the characteristics of MOSFET.
To study the characteristics of DIAC and plot it's V-I Characteristics curve.
To study the V-I characteristics of TRIAC.
To study the Resistor Triggering circuit.
To study the Resistor-Capacitor Triggering Circuit.
To study the triggering of SCR using UJT.

TECHNICAL SPECIFICATIONS:

Power Supplies:

+ 12V at 250mA

0-15V at 250Ma

0-30V at 250mA

15V - 0V - 15VAC at 250mA

Operated on Mains power 230V, 50Hz +10%

Digital Meters:

Voltmeter/Ammeter Dual Range 20V/20mA

Components are mounted on the panels are:

Power Devices:

MOSFET-IRF540

UJT-2N2646

DIAC-DB3

TRIAC-BT136

SCR-TYN604

FET BS170

Power Transistor 2N3055

Power Diode 8A

Capacitors on Board:

Capacitor 1uF

Capacitor 10uF

Resistance on Board:

10K,1/4W

100E/2W

220E/2W

22E,5W

Load Resistance using Rotary Switch:

100E, 220E, 500E, 1K, 2K2, each 5W

Variable Resistor:

10K (1Nos.)

DC Motor:

12V DC Motor With Fan

Bulb:

12V DC Bulb

Firing Circuit on Board:

RC Firing Circuit

UJT Firing Circuit

PWM Firing Circuit

SALIENT FEATURES:

Front panel built with high class insulated Printed Circuit Board sheet with well printed circuits and symbols.

Instruction manual.

Patch Cords 2mm Both.

High Voltage Test Points are Provided With 2mm Safety Sockets.

The trainer is housed in ABS Plastic Cabinet.

Size of the trainer set 12"x10".

 **LAB ENGINEERING**

Elab Engineering Equipments Manufacturers