

Product Name :
Power Electronics Trainer Modular

Product Code :
NLAB-EDUSCHOOLEQ197020

Description :

Power Electronics Trainer Modular

Technical Specification :

SCOPE OF LEARNING:

Study and Construction of Various Power Electronics Lab Experiment

TECHNICAL SPECIFICATIONS:

Power Supplies:

± 5V at 250mA

± 15V at 250mA

0-15V at 250Ma

0-30V at 250mA

18V - 0V - 18V at 150mA

15V - 0V - 15V at 250mA

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

Digital Meters:

Voltmeter/Ammeter Dual Range 20V/20mA

Ammeter Dual Range: 20mA/200mA

Voltmeter Dual Range: 20V/200V

Components are mounted on the panels are:

SCR Assembly: 4 SCR TYN604, 600V, 2A

MOSFET Assembly: 4 MOSFET IRF540

Power Devices:

IGBT-IRFBC20S

MOSFET-IRF540

UJT-2N2646

DIAC-DB3

TRIAC-BT136

SCR-TYN604

Power Transistor 2N3055

PUT2N6027

Power Diode 8A (2Nos.)

Capacitors on Board:

Inductors: on Board:

Resistance on Board:

Potentiometer:

Load Resistance using Rotary Switch:

120E, 220E, 500E, 1K, 2K2, 10K each 5W

Pulse Transformer on Board:

PT4503 1:1:1

Bread Board:

850 points bread board (2Nos.)

Load:

Lamp

DC Motor 12V

Firing Circuit on Board:

Line Synchronization Firing Control Circuit.

PWM Firing Control Circuit (Frequency Control).

Triac Firing Control 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 Attractive Australian Pine Wood Cabinet

Size of the trainer set 15"x11"

Naugralabequipments

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