

**Product Name :**  
Trainer board to study Switch Mode Power Supply

**Product Code :**  
EC111



**Description :**

Trainer board to study Switch Mode Power Supply

**Technical Specification :**

Trainer board to study Switch mode power supply  
SMPS trainer Kit (For Computer)

**Specification:**

Experimental Training Board has been designed specifically for the study of Switching Mode Power Supply (SMPS) for computer. Now a days Switching Mode Power Supplies are extensively used in various electronic instruments and computers.

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

**Experiments:**

- To study of primary rectifier and filter section of SMPS
- To study of Switching Transformer and its working
- To study the working of opto coupler in SMPS
- To study the regulator working in SMPS
- To study the Line regulation of SMPS using Variac
- To introduce the switch faults in different sections of SMPS and its effect.

**Object:**

- To study the different sections of SMPS.
- To locate typical components and Input/Output signals.

To measure the voltages at test points and Input/Output signals.  
To study the circuit in detail.  
To create faults by removing components and observe their effect.

**Specifications:**

Based on IC 494 as PWM.

Input Voltage : 170V to 260VAC. 50Hz.

Output Voltage : 5V, -5V, 12V, -12V, Power good signal voltage/as required in computers. Wattage (I/P) : 150 Watt

**Features:**

IC 494 used as PWM on socket.

Six pairs of Output Lead are provided.

Trainer assembled on enlarged PCB.

Fan cooling facility provided.

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

**Other Apparatus Required:**

Digital Multimeter 3½ digits

Cathode Ray Oscilloscope, 15MHz

Varic 8Amp

**Accessories:**

FAN 12V, 0.14A, brushless.

## Naugralabequipments

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