



**36341** Transistor Designer Trainer has been designed specifically for designing different types of circuits based on transistors. Its primary objective is to present a clear, and consistent picture of the practical aspects and physical behavior of transistors. Different experiments have been included in this Transistor Designer in order that a wide range of topics on Transistor applications be covered, in a reasonable amount of time. Although the experiments can be performed without modifications, they can also be used creatively in accordance with the ideas of the individual teachers who may wish to alter the depth and objectives of selected experiments.

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

#### **Object**

To design different types of circuits based on transistors Though the scope of Transistor Designer is unlimited, Some of the experiments which can readily be set up are as under :

01. Common Emitter Amplifier
02. Common Collector Amplifier
03. Combination Amplifier (C.E.& C.C.)
04. Common Emitter current feedback Amplifier
05. Phase Shift Audio Oscillator
06. Wien-Bridge Audio Oscillator
07. Free Running Multivibrator
08. Monostable Multivibrator
09. Flip-Flop Circuit
10. Schmitt's Circuit
11. Phase Splitter
12. Difference AmplifierZ

#### **Features**

The board consists of the following built-in parts :

01. I.C. Regulated D.C. Power Supplies
02. Gang Condenser, Potentiometers and Transistors etc
03. Adequate no. of other Electronic Components
04. Mains ON/OFF switch, Fuse and Jewel light
05. The unit is operative on 230V  $\pm 10\%$  at 50Hz A.C. Mains
06. Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length 50cm
07. Good Quality, reliable terminal/sockets are provided at appropriate places on panel for connections & observation of waveforms
08. Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References

#### **Other Apparatus Required:**

01. Audio Frequency Generators Sine/Square (2 Nos)
02. Decade Resistance Box
03. A.C. Mill voltmeter
04. D.C. Voltmeter 0-15V
05. Dual Trace CRO

Note: Specifications are subject to change.

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