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Product Name : Operational Amplifier Designer	Product Code : NLAB-ELECTRONICSAB420024
Description :	
Operational Amplifier Designer	
Technical Specification :	
AMP DESIGNER― has been designed specifically for the study of OP-AMP IC and its applications. This training	
board covers nearly all possible applications of operational amplifiers IC and makes the student familiar with the fundamentals of OP-AMPS,	
their characteristics and applications in various fields.100 experiments can be performed by this OP-AMP designer.	
Practical experience on this board carries great educative value for Science and Engineering Students.	
LIST OF EXPERIMENTS	
Following experiments can be performed:	
01. BASIC OPERATIONAL AMPLIFIER CIRCUIT	
01. Inverting Amplifier	
02. Non-inverting Amplifier	
03. Inverting A.C. Amplifier	
04. Non-inverting A.C. Amplifier	
05. High input impedance inverting Amplifier	
06. High input impedance non-inverting amplifier	

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- 02. SOURCE FOLLOWERS
- 01. Voltage Follower (Unit gain buffer amplifier)
- 02. A.C. Voltage follower
- 03. OP- AMPS AS ANALOGUE COMPUTER ELEMENTS
- 01. Inverting summing amplifier
- 02. Non-inverting summing amplifier
- 03. Subtractor
- 04. Differential amplifier
- 05. A.C. differential amplifier
- 06. Adder subtractor
- 07. Multiplication by a constant
- 08. Division by a constant
- 09. Integrating amplifier for DC input signals
- 10. Integrating amplifier for AC input signals
- 11. Differentiator amplifier
- 12. Non-inverting differentiator
- 04. FUNCTION GENERATOR
- 01. Sine Wave generator using wien bridge network
- 02. Square Wave generator
- 03. Pulse generator
- 04. Square and Triangular wave generator
- 05. Saw tooth generator
- 06. Synchronised sawtooth generator with negative going pulse trigger
- 07. Synchronised sawtooth generator with positive going pulse trigger

FEATURES

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The board consists of the following built-in parts:

- 01. IC Regulated D.C. Power Supply.
- 02. Continuously variable D.C. Power Supply.
- 03. Two OP-Amp IC.
- 04. Transistor, 5 diodes, 2 zener diodes, 28 resistors, 8 capacitors, one LED, one lamp.
- 05. Mains ON/OFF switch, fuse and Neon Indicator are provided.

GENERAL FEATURES

The unit is operative on 230V, 50Hz A.C.

Adequate no. of patch cords stackable from rear both ends 4mm spring loaded plug length ½ metre.

OTHER APPARATUS REQUIRED

Sine Square Wave Oscillator

Digital Multimeter 3¾ digit

A.C. Millivoltmeter

Cathode Ray Oscilloscope 20MHz

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