

33529 Electronics could be taught straight from a book if students were able to visualise the function of an experimental circuit. Unfortunately this is rarely the case and until now it has been necessary to laboriously assemble every experiment to be examined.
The assembly of each circuit has no didactic value whatsoever other than to provide the student with a circuit on which to perform the experiment. Now, this can be dramatically improved with the 33529 Analog Overlay Overlay Learning System.

## FEATURES

The 33529 Analog Overlay Overlay Learning System. allowsthe student to assemble even the most involved circuit in less than five minutes, thus leaving enough time for fruitful experimentation.
The 33529 Analog Overlay Overlay Learning System features wiring templates which fit over a breadboard and guide students to an immediate and rational experimental layout whilst the experiment book relates to the traditional circuit diagram.
No add-ons are required. All the necessary equipment including a stand ardised set of components is included. The thoroughly researched courseware was designed by educators with over 20 years practical teaching experience, with the aim to enforce theory and not confuse students. The professionally produced manuals are referenced to the most widely used theory books, and the schematic diagrams, component listings, and experiment procedure are clearly listed. Each experiment was tested for typical student reaction prior to final editing.
No prerequisites are demanded other than basic arithmetic. The emphasis is on an instrumental understanding rather than a mathematical one. The continuous hands-on exposure ensures the transfer of marketable technological skills in the minimum amount of time.

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OBJ ECTS:
    0 1 \text { Semiconductor Silicon Diodes in DC Circuits}
    02 Light Emitting Diodes in DC Circuits
    0 3 \text { Silicon Diodes in AC Circuits: Half Wave Rectification}
    0 4 \text { Silicon Diodes in AC Circuits: Full Wave Rectification}
    0 5 \text { The Use of a Diode Bridge in DC Circuits}
    0 6 \text { The Use of a Diode Bridge in AC Circuits}
    0 7 \text { Filtering and Regulation of a Pulsating DC Voltage}
    0 8 \text { An Experimental Power Supply using a "PI" Filter}
    09 Voltage Multiplying using diodes & Capacitors: Voltage Doubling
    10 DC Current Gain of a Common Emitter TransistorConfiguration
    11 The Common Emitter as an AC Amplifying Stage
    12 Cascaded Stages of Amplification
    13 Class ASingles-Ended Loudspeaker Driven Audio Amplifier
    14 The Class APush-Pull Audio Amplifier
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Note: Specifications are subject to change.

## Tesca Technologies Pvt. Ltd.

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15 Complementary-Symmetrical Push-Pull Output Circuits
16 The Field Effect Transistor: The Common-Source Amplifier
17 Oscillator Circuits: The Zero-Phase Shift Oscillator
18 Oscillator Circuits: The Phase-Shift Oscillator
19 Oscillator Circuits: The Armstrong Oscillator
20 Oscillator Circuits : The Hartley Oscillator
21 Oscillator Circuits: The Colpitts Oscillator
22 Digital Integrated Circuits: The AND Gates
23 Digital Integrated Circuits: The OR Gate
24 Digital Integrated Circuits : The AND-OR Function
25 Digital Integrated Circuits: The Inverting Gate
26 Digital Integrated Circuits: The NAND Gate
27 Digital Integrated Circuits: The NOR Gate
28 Digital Integrated Circuits: The Full Adder

## PACKAGE CONTENTS

01 Wiring templates (28 pieces)
02 Experiment manual 1set
03 Component pack 1 set with templates
04 Breadboard 1680 Tie points.
05 Dimensions $170 \times 127 \times 50 \mathrm{~mm}$
06 Weight 1.4 Kg .

## COMPONENTS PROVI DED (ACCESSORIES)

RESISTORS 1/ 2W : 100E/ 1 120E/1, 270E/5, 470/1, 680/1, $1 \mathrm{~K} / 2,1 \mathrm{~K} 5 / 2,1 \mathrm{~K} 8 / 1,2 \mathrm{~K} 7 / 23 \mathrm{~K} 3 / 1,3 \mathrm{~K} 9 / 1,4 \mathrm{~K} 7 / 3$, 5K6/1, 8K2/1, 10K/3,22K/1, 27K1, 33K/1, 39K/1, 47K/1, 68K/1270K/1, 1M/1,
RESI STORS HI GHER WATT: $10 \mathrm{E}, 1 \mathrm{~W} / 1,4 \mathrm{E} 7,5 \mathrm{~W} / 1$, .
POLYESTER CAPACITORS : $0.01 \mathrm{uF} / 3,0.015 \mathrm{uF} / 2,0.022 \mathrm{uF} / 2,0.047 \mathrm{uF} / 2, ~ 0.1 \mathrm{uF} / 1,0.22 \mathrm{uF} / 2$
ELECTROLYTIC CAPACITORS: 22Uf/25V/2, 100uF/ 25V/3
POENTI OMETERS : $1 \mathrm{~K} / 1,4 \mathrm{~K} 7 / 2,10 \mathrm{~K} / 1$ SWITCHES : SPDT/3.
DI ODES ANDLEDs : IN4007/4, 5mm LED (Red)/5
TRANSI STOR : CL-100/1,CK-100/1,BC546/2, 2N-2222/2, BFW10/1
TRANSFORMERS : OUT-PUT/1, IN-PUT/ 1, MAIN TX 6V3-06V3/1
INTEGRATED CIRCUITS : 7400/1, 7404/1, 7411/1, 7432/1
SPEAKER: 8E, $0.25 \mathrm{~W} / 1$
MULTI METER : 03

## LI ST OF ACCESSORIES:

01 Mains cord
02 Red \& Black patch cords (2mm two 1MM) 10 each,
03 Red \& Black patch cord ( 1 mm to 1 mm ) 10 each.
04 Wire 24/25 SWG. 1 Meter each 5 Colour

## I NSTRUCTI ON MANUAL:

Strongly supported by detailed operating instructions.

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