

VERIFICATION OF VARIOUS LAWS & CONVERSION OF SIGNAL

CEE 2100 Measurement of Peak, Average & RMS Value of AC Signal.

OBJECTIVE :

Instruments Comprises Sine Wave Output on sockets, Step Down Transformer, Circuit Diagram for Peak & Average Value measurement Printed and connections of Important points brought out at Sockets/Terminals.

CEE 2101 Verification of K.C.L. and K.V.L.

OBJECTIVE:

KCL and KVL Apparatus has been designed to calculate current flowing through different branches of the circuit.

POWER SUPPLY:

DC Regulated Power Supply of 0-3V DC/250mA

METER:

Two Digital Meters for Voltage & Current.

STANDARD (COMP):

Combination of resistance



CEE 2102 Resistances in Series & Parallel Apparatus.

OBJECTIVE:

To verify properties of Resistance when connected in Series & Parallel.

SPECIFICATION:

Instrument comprises of One Digital Ohm meters to Measure Resistance Different types of Resistances are mounted On the front panel.

CEE 2103 Ohm's Law Apparatus

OBJECTIVE:

To verify Ohm's Law i.e. $V=IR$

SPECIFICATION:

Instrument comprises of two Digital meters to Measure voltage & current, one no. DC Variable Power Supply (0-10V), Circuit diagram printed & connections Brought out at Sockets.

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CEE 2104 Charging & Discharging of condenser

OBJECTIVE: To study of RC Time constant using various sets of Resistance & Capacitors.

SPECIFICATION: Variable DC Power Supply(0-10V) One no. DC Volt Meter & One no. DC Current Meter
different Values of Resistances & Capacitors.

CEE 2106 BH Curve Apparatus

OBJECTIVE: To trace Hysteresis curves on CRO using Resistance, Capacitance
& Inductance.

SPECIFICATION : AC Power Supply 3 - 15V AC. & Printed Circuit Diagram

CEE 2108 Conversion of Galvanometer into a Voltmeter & Ammeter.

OBJECTIVE: To study the Conversion of Galvanometer into a Voltmeter & Ammeter

SPECIFICATION: One no. Galvanometer, Circuit for conversion into Voltmeter (0-15V), Circuit for
Conversion into Ammeter (0-15mA)

CEE 2110 LCR Resonance Apparatus.

OBJECTIVE: To plot Frequency vs. Current Characteristics of LCR Circuit when
connected in series or in parallel.

SPECIFICATION: Instrument comprises one no. AC Voltmeter & One no. AC Current Meter
5no Resistance, 5 no. Capacitor and 5 no. Inductor coil

OPT ACC.: Sine Wave Generator (50Hz To 100KHz)

CEE 2116 Clipping & Clamping Circuit Apparatus.

OBJECTIVE: To study effect of Positive & Negative Clipping & Clamping on Sine Wave.

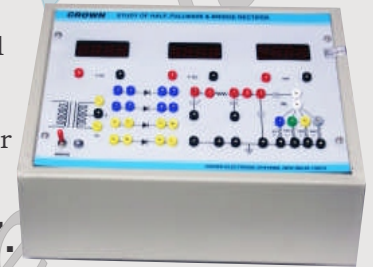
SPECIFICATION: Instrument comprises of DC Regulated Power Supply 0 - 3V/150mA. Two fix output DC Power Supplies Connected in series of Diodes for Positive & Negative Clipping, Circuit diagram for Clipping & Clamping Circuit Printed, Components placed inside & Connection brought out at 4mm sockets

OPTIONAL ACC : Audio Frequency function Generator & CRO

CEE 2117 Half Wave/Full Wave & Bridge Rectifier Apparatus

OBJECTIVE: To study efficiency & Ripple factor in case of Half Wave, Full Wave & Bridge rectifier on application of load & Filter.

SPECIFICATION: AC Power Supply, Two meters, Four PN Junction Diode Filter Circuit Kit, Load Resistances.



CEE 2118 Study of Voltage Regulation using IC317.

OBJECTIVE: Study of line and load Regulation in DC Regulated Power Supply using IC 317.

SPECIFICATION: Two digital meter to measure output Voltage, Output current, AC Ripples directly. Rectifier Diodes, Filter Circuit kit, Regulation Circuit using IC 317. Load Resistances.

CEE 2119 Study of Voltage Regulation using Zener Diode & Transistors.

OBJECTIVE: Study of Voltage Regulation using Zener Diode & Series and Shunt Transistors regulator circuit

SPECIFICATION: AC Power Supply one no. Digital Meter for Voltage & One no. Digital Meter for Current Two no. Zener Diodes (5.1V, 6.8V) , Series & Shunt Transistor regulator circuits & Load Resistances

CEE 2121 Electronic Project Board

OBJECTIVE: This Electronics Project Board is design to test some basic electronics circuits / experiments. The instrument is very useful for students and hobbist.

SPECIFICATION: Dual Output DC Regulated Power Supply 0 - \pm 15 V/ 500mA. Fixed Output Dual DC Regulated Power Supply \pm 5V/ 500mA. Two Digital Panel Meter of 19.99V DC & 1.999A DC. One Bread Board.

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