

(R 2021) SEMESTER – II
GE1207 ENGINEERING PRACTICES LABORATORY

LIST OF EXPERIMENTS

GROUP B (ELECTRICAL & ELECTRONICS)

III ELECTRICAL ENGINEERING PRACTICE

1. Residential house wiring using switches, fuse, indicator, lamp and energy meter.
2. Fluorescent lamp wiring.
3. Stair case wiring
4. Measurement of electrical quantities – voltage, current, power & power factor in RLC circuit.
5. Measurement of energy using single phase energy meter.
6. Measurement of resistance to earth of an electrical equipment.

IV ELECTRONICS ENGINEERING PRACTICE

1. Study of Electronic components and equipments – Resistor, colour coding measurement of AC signal parameter (peak-peak, RMS period, frequency) using CR.
2. Study of logic gates AND, OR, EX-OR and NOT.
3. Generation of Clock Signal.
4. Soldering practice – Components Devices and Circuits – Using general purpose PCB.
5. Measurement of ripple factor of HWR and FWR.

LIST OF EQUIPMENT & COMPONENTS

Sl. No.	Description of Equipment
1.	Assorted electrical components for house wiring
2.	Electrical measuring instruments
3.	Study purpose items: Iron box, fan and regulator, emergency lamp
4.	Megger (250V/500V)
5.	Power Tools: (a) Range Finder (b) Digital Live-wire detector
6.	Soldering guns
7.	Assorted electronic components for making circuits
8.	Small PCBs
9.	Multi Meters
10.	Study purpose items: Telephone, FM radio, low-voltage power supply

(R 2021) SEMESTER – II
EC1208 CIRCUITS AND DEVICES LABORATORY

LIST OF EXPERIMENTS

1. Characteristics of PN Junction Diode
2. Zener diode Characteristics and Regulator using Zener diode
3. Common Emitter input-output Characteristics
4. Common Base input-output Characteristics
5. FET Characteristics
6. SCR Characteristics
7. Clipper and Clamper & FWR
8. Verifications of Thevenin & Norton theorem
9. Verifications of KVL & KCL
10. Verifications of Super Position Theorem
11. Verifications of maximum power transfer & reciprocity theorem
12. Determination of Resonance Frequency of Series & Parallel RLC Circuits
13. Transient analysis of RL and RC circuits

LIST OF EQUIPMENT & COMPONENTS

Sl. No.	Description of Equipment
1.	CRO(30MHz)
2.	Function Generators(3MHz)
3.	Dual Regulated power Supplies(0-30V)
4.	BC107,BC148,2N2646,BFW10
5.	IN4007,Zener diodes
6.	Resistors, Capacitors, Inductors
7.	Bread Boards