I Year II Semester L T P C
Code: 20ES2107 0 0 3 1.5

SEMICONDUCTOR DIODES AND APPLICATIONS LAB

List of Experiments:

- 1. Identification, Specifications, Testing of R, L, C Components (Colour Codes), Potentiometers, Coils, Gang Condensers, Relays, Bread Boards.
- 2. Soldering Practice- Simple circuits using active and passive components.
- Study and operation of Ammeters, Voltmeters, Transformers, Analog and Digital Multimeter, Function Generator, Regulated Power Supply
- 4. CRO Operation and its Measurements
- 5. P-N Junction Diode Characteristics
 - Part A: Germanium Diode (Forward bias & Reverse bias)
 - Part B: Silicon Diode (Forward Bias only)
- 6. Zener Diode Characteristics
 - Part A: V-I Characteristics
 - Part B: Zener Diode as Voltage Regulator
- 7. LED Characteristics
- 8. SCR Characteristics
- 9. Half-wave Rectifier (without and with C-filter)
- 10. Full-wave Rectifier (without and with C-filter)
- 11. Clippers–Positive and Negative
- 12. Clampers-Positive and Negative