

JIS College of Engineering
Department of Electronics & Communication Engineering

Paper Name: BASICS ELECTRICAL AND ELECTRONICS ENGINEERING
LABORATORY

Paper Code:EC191 Credit:1.5

Total Lecture: 36

Course Outcomes:

The Graduates of the ECE program will be able to:

CO1: Analyze a given network by applying KVL and KCL.CO2: Examine the Operation of DC Motor.

CO3: Examine the Operation of Basic Electronics DevicesCO4: Design simple electronics circuits.

List of Experiments: -

1. Familiarization with different passive and active electrical & electronic components.
2. Familiarization with different Electrical & Electronics Instruments.
3. Verification of KVL and KCL.
4. Forward and reversal of DC shunt motor.
5. Speed control of DC shunt motor.
6. Study of the P-N junction diode V-I characteristics (Forward & Reverse
7. Bias).
8. Study of the Characteristics of Zener diode (Forward & Reverse
9. Bias).
10. Study of half wave and full wave rectifier.
11. Study of clipper and clamper circuit.
12. Study of the Input and Output characteristics of BJT in CE mode.
13. Study of transfer and drain characteristics of JFET.
14. Extramural Experiment.