

## Basic Electrical Engineering Laboratory

Sl. No.	Title of the Experiments
01	Introduction and uses of the instruments: <i>Voltmeter, Ammeter, Multimeter and Oscilloscope.</i>
02	Demonstration of real-life resistors, capacitors with color code, inductors and autotransformer and their applications.
03	Demonstration of cut-out sections of machines: <i>DC machine, Induction machine, Synchronous machine and single-phase induction machine.</i>
04	Calibration of Ammeter and Voltmeter.
05	Calibration of Wattmeter.
06	Open circuit and short circuit test of a single-phase transformer.
07	Measurement of power in a three-phase balanced circuit by two wattmeter method.
08	Determination of Torque –Speed characteristics of separately excited DC motor.
09	Determination of Torque speed characteristics and observation of direction reversal by change of phase sequence of connection of Induction Motor.
10	Determination of transient response of R-L, R-C and R-L-C circuit to a step change in voltage.
11	Determination of steady state response of R-L and R-C and R-L-C circuit and calculation of impedance and power factor.
12	Determination of resonance frequency and quality factor of series and parallel R-L-C circuit.
13	Demonstration of operation of DC-DC converter.
14	Speed control of a DC Shunt motor.
15	Determination of the Open Circuit Characteristics of DC Shunt generator.
16	Verification of Thevenin's, Norton's and Superposition Theorems.