



S. N. Patel Institute of Technology & Research Centre, Umrakh

(A Vidyabharti Trust Institution)

B.E./Electrical Engineering Department

Subject Name: Basic Electrical Engineering

Subject Code: 3110005

Sr.No.	Experiment
1	Introduction and use of measuring instruments – voltmeter, ammeter, multi-meter.
2	To verify the Kirchoff's current and voltage laws.
3	To verify the Network theorems.(Superposition, Thevenin)
4	To obtain sinusoidal steady state response of R-L and R-C circuits – impedance calculation and verification. Observation of phase differences between current and voltage.
5	To measure the power in three Phase circuits using two wattmeter method.
6	To verify the current and voltage relationships in three phase star and delta connections.
7	Demonstration of cut-section models of D.C machines, Induction machines and Transformer.
8	Demonstration of various types of wires and cables.
9	Understanding of various electricity bills and calculations for energy consumption.
10	Understanding of various safety precautions for electrical installations & Demonstration of domestic installations like MCB, ELCB.