

**CB152****PRINCIPLES OF ELECTRICAL ENGINEERING LAB****L T P C Int Ext****- - 2 1.0 30 70****Semester I [First Year]****COURSE OBJECTIVES:**

1. To conduct experiments on electrical circuits.
2. To design experimental setups for theorems.
3. To Simulate of Time response of RC circuit.
4. To verify relations in in three phase balanced star/delta connected loads.

**COURSE OUTCOMES:****Upon completion of this laboratory, the student will be able to:**

1. Make electrical connections by wires of appropriate ratings.
2. Verify the network theorems.
3. Simulate of Time response of RC circuit.
4. Verify relations in in three phase balanced star/delta connected loads.

**EXPERIMENTS:**

1. Familiarization of electrical Elements, sources, measuring devices and transducers related to electrical circuits.
2. Determination of resistance temperature coefficient.
3. Verification of Super position Theorem.
4. Verification of Theremin's Theorem.
5. Verification of Norton's Theorem.
6. Verification of Maximum Power Transfer Theorem.
7. Simulation of Time response of RC circuit.
8. Verification of relation in between voltage and current in three phase balanced star connected load.
9. Verification of relation in between voltage and current in three phase balanced delta connected load.
10. Demonstration of measurement of electrical quantities in DC systems.