

Course	Code:	15EE1156	L	. 1	Г Р	° C
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Course Outcomes:

At the end of the lab course, student will be able to:

- **CO1** Solve the Network problems using Network Theorems.
- CO 2 Analyze the Networks using Periodic and Non Periodic inputs.
- **CO 3** Evaluate the performance of DC Machines.
- **CO 4** Evaluate the Performance of Transformers.
- **CO 5** Evaluate the performance AC Machines.

PART – A

- 1. Verification of Kirchhoff's laws.
- 2. Verification of Superposition and Reciprocity Theorems.
- 3. Experimental determination of Thevenin's Equivalent circuits and verification by Direct Test.
- 4. Verification of Maximum Power Transfer Theorem
- 5. Series Resonance Resonant frequency, Bandwidth and Qfactor determination for RLC Network.
- 6. Time response of first order R-L and R-C network for periodic Non-sinusoidal inputs time constant and steady state error determination.

PART – B

1. Magnetization characteristics of D.C. Shunt generator. Determination of Critical Field Resistance and Critical Speed.

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2. Swinburne's Test on DC Shunt Machine.

- 3. Brake test on DC Shunt Motor.
- 4. OC & SC tests on Single-phase transformer.
- 5. Brake test on 3-Phase Induction Motor.

Regulation of Alternator by Synchronous Impedance Method.