Diploma, Anna Univ UG & PG Courses

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EE8261 ELECTRIC CIRCUITS LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

- To simulate various electric circuits using Pspice/ Matlab/e-Sim / Scilab
- To gain practical experience on electric circuits and verification of theorems.

LIST OF EXPERIMENTS

- 1. Simulation and experimental verification of electrical circuit problems using Kirchhoff's voltage and current laws.
- 2. Simulation and experimental verification of electrical circuit problems using Thevenin's theorem.
- 3. Simulation and experimental verification of electrical circuit problems using Norton's theorem.
- 4. Simulation and experimental verification of electrical circuit problems using Superposition theorem.
- 5. Simulation and experimental verification of Maximum Power transfer Theorem.
- 6. Study of Analog and digital oscilloscopes and measurement of sinusoidal voltage, frequency and power factor.
- 7. Simulation and Experimental validation of R-C electric circuit transients.
- 8. Simulation and Experimental validation of frequency response of RLC electric circuit.
- 9. Design and Simulation of series resonance circuit.
- 10. Design and Simulation of parallel resonant circuits.
- 11. Simulation of three phase balanced and unbalanced star, delta networks circuits.