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33065- ELECTRICAL CIRCUITS SIMULATION PRACTICAL

DETAILED SYLLABUS

OBJECTIVES

On completion of this practical subject, the students will be able to

- Know the various aspects of simulation software
- Simulate and test the simple electrical and electronics circuits
- Simulate and test the wave generating circuits
- Simulate and prove the simple theorems
- Simulate and test the performance characteristics of converters
- To design and verify the results of various electric circuits using simulation software.

LIST OF EXPERIMENTS

- 1. a) Generate sinusoidal waveform for a RMS voltage ____ V and frequency of ___ Hz
 - b) Generate a complex signal comprising of fundamental, 5th harmonics and 7 th harmonics frequency
- 2. Step response of RL & RC series circuits.
- 3. a) Simulation of RLC series response circuits
 - b) Simulation of RLC parallel response circuits
- 4. Verification of Superposition theorem.
- 5. Verification of Thevenin's theorem.
- 6. Simulation of half wave rectifier.
- 7. Simulation of full wave rectifier.
- 8. Simulation of single phase, half wave converter using SCR with R-load.
- 9. Simulation of single phase, semi converter with RL load.
- 10. Simulation of single phase full converter with RL load.
- 11. Simulation of DC steps down chopper.
- 12. Simulation of single phase inverter.
- 13. Simulation of three phase voltage source inverter supplying R-load
- 14. a) Simulation of three phase star connected balanced load
 - b) Simulation of three phase star connected unbalanced load
- 15. a) Simulation of three phase delta connected balanced load
 - b) Simulation of three phase delta connected unbalanced load

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- 16. a) Simulation of three phase non-linear star connected load with three phase 3 wire system.
 - b) Simulation of three phase non-linear star connected load with three phase 4 wire system.