Diploma, Anna University-UG, PG., HSC & SSLC

Notes
Syllabus
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PS5111 POWER SYSTEM SIMULATION LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To have hands on experience on various system studies and different techniques used for system planning using Software packages
- To perform the dynamic analysis of power system

LIST OF EXPERIMENTS

- 1. Power flow analysis by Newton-Raphson method and Fast decoupled method
- 2. Transient stability analysis of single machine-infinite bus system using classical machine model
- 3. Contingency analysis: Generator shift factors and line outage distribution factors
- 4. Economic dispatch using lambda-iteration method
- 5. Unit commitment: Priority-list schemes and dynamic programming
- 6. State Estimation (DC)
- 7. Analysis of switching surge using EMTP: Energisation of a long distributed- parameter line
- 8. Analysis of switching surge using EMTP: Computation of transient recovery voltage
- 9. Simulation and Implementation of Voltage Source Inverter
- 10. Digital Over Current Relay Setting and Relay Coordination using Suitable software packages
- 11. 11 Co-ordination of over-current and distance relays for radial line protection