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

Notes
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PS5211 ADVANCED POWER SYSTEM SIMULATION LABORATORY

DETAILED SYLLABUS

OBJECTIVES

- To analyze the effect of FACTS controllers by performing steady state analysis.
- To have hands on experience on different wind energy conversion technologies

LIST OF EXPERIMENTS

- Small-signal stability analysis of single machine-infinite bus system using classical machine model
- 2. Small-signal stability analysis of multi-machine configuration with classical machine model
- 3. Induction motor starting analysis
- 4. Load flow analysis of two-bus system with STATCOM
- 5. Transient analysis of two-bus system with STATCOM
- 6. Available Transfer Capability calculation using an existing load flow program
- 7. Study of variable speed wind energy conversion system- DFIG
- 8. Study of variable speed wind energy conversion system- PMSG
- 9. Computation of harmonic indices generated by a rectifier feeding a R-L load
- 10. Design of active filter for mitigating harmonics