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EE8711 POWER SYSTEM SIMULATION LABORATORY

DETAILED SYLLABUS

OBJECTIVES:

• To provide better understanding of power system analysis through digital simulation.

LIST OF EXPERIMENTS

1 Computation of Transmission Line Parameters

- 2 Formation of Bus Admittance and Impedance Matrices and Solution of Networks
- 3 Power Flow Analysis using Gauss-Seidel Method
- 4 Power Flow Analysis using Newton Raphson Method
- 5 Symmetric and unsymmetrical fault analysis
- 6 Transient stability analysis of SMIB System
- 7 Economic Dispatch in Power Systems
- 8 Load Frequency Dynamics of Single- Area and Two-Area Power Systems
- 9 State estimation: Weighted least square estimation
- 10 Electromagnetic Transients in Power Systems: Transmission Line Energization