Name of the Lab: Power System Simulation Laboratory

EE 8711 (ODD Semester)   **Regulation 2017**

LIST OF EXPERIMENTS (Recommended as per Anna University)

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.

                                                      TOTAL: 60 PERIODS

CONTENT BEYOND THE SYLLABUS

1. Modeling of FACTS devices using SIMULINK.

2. Study of Different Characteristics of Over Current Relay.