

**EE8711 - POWER SYSTEM SIMULATION
LABORATORY**

LIST OF EXPERIMENTS

- ❖ **Computation of Transmission Line Parameters.**
- ❖ **Formations of Bus Admittance and Impedance Matrices and Solution of Networks.**
- ❖ **Power Flow Analysis using Gauss-Seidel Method**
- ❖ **Power Flow Analysis using Newton Raphson Method**
- ❖ **Symmetric and unsymmetrical fault analysis**
- ❖ **Transient stability analysis of SMIB System**
- ❖ **Economic Dispatches in Power Systems**
- ❖ **Load – Frequency Dynamics of Single- Area and Two-Area Power Systems.**
- ❖ **State estimation: Weighted least square estimation**
- ❖ **Electromagnetic Transients in Power Systems: Transmission Line Energization.**

