

DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

Name of the Lab : Power System Simulation Laboratory

OBJECTIVES

- To provide better understanding of power system analysis through digital simulation.
- To present a problem oriented knowledge of power system analysis methods.
- To address the underlying concepts & approaches behind analysis of power system network using software tools.
- To identify & formulate solutions to problems relevant to power system using software tools.

OUTCOMES

At the end of the course, the student should have the

- Ability to understand the concept of MATLAB programming in solving power systems problems.
- Ability to understand power system planning and operational studies.
- Ability to acquire knowledge on Formation of Bus Admittance and Impedance Matrices and Solution of Networks.
- Ability to analyze the power flow using GS and NR method.
- Ability to find Symmetric and Unsymmetrical fault.
- Ability to understand the economic dispatch.
- Ability to analyze the electromagnetic transients.
- Ability to acquire knowledge on power system analysis methods.
- Ability to effectively employ different techniques to analyze different power system network conditions.