

## **Course Description**

### **EE607: Advanced Power System Analysis**

Load flow studies of systems with Renewable Energy Sources, FACTS controllers and HVDC links, Optimal Load Flow Analysis without inequality constraints, OPLF with inequality constraints. Security Analysis-Simulation of addition and removal of Multiple lines-Network reduction, Approximate load flow methods for contingency analysis, Static State Estimation-Tracking state estimation-Weighted least square estimation technique Applications.