
Code	Advanced Power System Analysis
Name	ECE 652
Hour per week	3(3 + 0)
Credit	3
ECTS	10
Level/Year	Graduate
Semester	Fall, Springs
Type	Elective
Prerequisites	NA
Content	Power system modeling, power flow calculation and short circuit studies and learning of usage of a programming language during the course of these analyses will be aimed. At the end of the this class, student will learn how to analyze power system in general, there phase system and connection (delta-y), power systems in per-unit system, admittance matrix modeling and usages, derivation of network reduction, derivation of Z bus modification, power Flow Calculation by using gauss-seidel and newton Raphson methods, symmetrical and unsymmetrical components, short circuit calculation, economic operation of power systems.
