

EE 405 : Electric Power Systems

The course teaches the components, analysis, and modeling of large scale electric power systems. This includes the review of single and three phase circuit variables and parameters and the per unit system. The components of the system are studied including the transformers and the transmission line parameters. In addition, the operation in terms of modeling and analysis of electric power systems is studied in steady state and transient state, with a particular focus on power flow solution methods. Case studies are introduced to prepare for more advanced topics. A project accompanies the course to introduce practical aspects of measurements and operation, with simulations addressing large scale problems.

Credits 3

Lab Hours 0

Lecture Hours 3

Tutoring Hours 0

Prerequisites

[EE 308](#), [MAT 224](#)

Corequisites

None