Introduction:
Principles of operating electric power systems; single and multi-phase systems. Transmission line parameters: resistance, inductance and capacitance, and current-voltage relations. Modeling: generators, transformers, and transmission lines. Introduction to network calculations, per-unit normalization, one-line diagram presentation. Symmetrical components and fault analysis.

The ref. book:

Prerequisite would be:
Fundamentals of Electric Circuits

Grading policy:
10% for HW’s. 30% for midterm exam, and 60% for the Final.