



Fundamentals of Electrical Engineering I

Course Code: 25091
Credits: 3
Course Type: Theoretical
Prerequisites: General Mathematics 2, Physics 2
Corequisite: -
Course Length: 51 hours

Outline:

1. Introduction to modeling
2. Basic parameters and electric components
3. Voltage and current Laws
4. Basic circuit analysis technics
5. Basic RL , RC and RLC circuit analysis
6. AC Circuit Analysis
7. Introduction to Three-Phase Circuits
8. Introduction to Telecommunications, Control and Logic Circuits

References:

William Hayt, Jack Kemmerly, Jamie Phillips and Steven Durbin, "Engineering Circuit Analysis – 9th Ed." McGraw-Hill Book Company Inc.