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Text Book: Introductory Circuit Analysis, 10th Edition by Robert L. Boylestad

Class Hours: MWF 15:30-16:20  
Office Hours: MW 13:30-15:30

Course Description: This course develops an understanding of electrical circuits. Circuit analysis techniques are presented including DC and steady state analysis. Power calculation, power distribution and dissipation are covered with examples relating to cables, connections and buses.

Topics

1) Introduction  
2) Current, Voltage, and resistance  
3) Ohm’s Law, Power and Energy  
4) Series and parallel circuits  
5) D.C Analysis  
6) Network theorem  
7) Capacitors and inductors  
8) AC  
9) Phasors  
10) Series and Parallel AC circuits  
11) AC circuits analysis and network theorem  
12) Power  
13) 3-phase circuits  
14) transformers

Grading: Homeworks: 20%, 2-Mid Term Tests: 20% each and Final 40%

Late Homework will not be accepted. Test dates will be announced two weeks ahead.  
No make-up tests will be allowed.