

ENGR 201 Fall 2000

Electrical Fundamentals

Instructor:	Karti Mayaram (email: karti@ece.orst.edu)
Office:	Owen 244 (phone: 737-2972)
Office Hours:	MW 3:00-4:00 pm and by appointment
Teaching Assistants:	Details to be provided in another handout
Course Objective:	Basic circuit analysis techniques. Analysis of resistive circuits. Sinusoidal steady-state analysis.
Grading:	Midterm Exams (2) 40% Comprehensive Final Exam 25% Homework 10% Laboratory work 25% Your final grades will be based on the overall absolute score. The ranges for the various grades will be A: above 90, B: 80-90, C: 70-79, F: below 70.
Homework:	Homework will be assigned in each lecture starting 10/3 and will be due each Tuesday by 6:00pm outside my office. There will be no homework assigned in an exam week. Each homework will be graded either a 10 (mostly correct), 5 (partially correct), or 0 (little or no effort). No late homeworks will be accepted.
Exams:	The exams will be closed book (one page of notes allowed). Midterm exam dates: Thursdays - 10/19 and 11/16 . Final exam date: Tuesday Dec. 5, 4:00-6:00pm.
Labs:	The Lab begins in week 3. Lab handouts available from the bookstore.
Cheating Policy:	Cheating is unacceptable. Swift disciplinary action will be taken for cheating.
TextBook:	Alexander and Sadiku, <i>Electric Circuits</i> , McGraw-Hill, 2000.
References:	Nilsson and Riedel, <i>Electric Circuits</i> , Prentice Hall, 2000.

Course Outline

(2 weeks)	Basic circuit concepts and laws. (Chap. 1, Chap. 2).
(3 weeks)	Analysis methods, circuit theorems (Chap. 3, Chap. 4).
(1 week)	Opamps (Chap. 5).
(2 weeks)	Inductors, capacitors, sinusoids, phasors (Chap. 6, Chap. 9).
(1 week)	Sinusoidal steady-state analysis (Chap. 10).