

EE 201 ELECTRIC CIRCUITS
Second Semester (032) Tentative Schedule

INSTRUCTOR	OFFICE	PHONE	OFFICE HOURS	E-MAIL
Dr. A. Zidouri	14-209-1	3677	SMW: 11:00-12:30	malek@kfupm.edu.sa

Textbook: *ELECTRIC CIRCUITS*, Nilsson & Riedel, 6th. Edition, 1999

Wk	Date	Topics	Text	H.W.	Laboratory/Tutorial
1	14-18 Feb.	Circuits Variables, Sources	1.1-1.6,2.1	1	No Experiment
2	21-25 Feb.	Ohm's Law, KCL, KVL, Dependent Sources	2.2-2.5	2	Exp # 1 : Electrical circuits simulation using Multisim Electronics Workbench : An Introduction
3	28 Feb-03 Mar.	Resistive Circuits, Nodal Analysis	3.1-3.4, 3.7,4.1.	3	Exp #2 : Electric circuit fundamentals
4	06-10 Mar.	Nodal Analysis (Continued), Mesh Analysis	4.2-4.5	4	Exp # 3 : Resistors in series, color codes & power rating
5	13-17 Mar.	Mesh Analysis, Source Transformation,	4.6-4.9,	5	Exp # 4 : Kirchhoff's laws
6	20-24 Mar.	Thevenin And Norton Eq. Circuits.	4.10-4.11	6	No Exp.
Major Exam I, Mar. 24 (Sections 1.1-4.9), B-6-125, 6.05 – 7:35 PM					
7	27-31 Mar.	Max. Power Transfer, Superposition.	4.12-4.13,5.1-5.2	7	Exp # 5 : Series & parallel circuits, voltage divider & current divider rules
8	03-07 Apr.	Operational Amplifiers	5.1-5.6		Exp # 6 : Superposition theorem
9	10-14 Apr.	Inductors, Capacitors, First Order Circuits	6.1-6.3,7.1-7.2	8	Exp # 7 : Thevenin's theorem and maximum power transfer
10	17-21 Apr.	First Order Circuits (Continued)	7.3-7.7	9	Exp # 8 : DC sweep analysis
11	24-28 Apr.	First Order Circuits (contd.), Sinusoidal Response, Complex Numbers	9.1-9.2, Appendix B.	10	Exp # 9 : Transients of a first order RC circuit
12	01-05 May.	Frequency Domain Analysis.	9.3-9.7	11	No Experiment
Major Exam II, May 04 (Sections 4.10-9.2), B-14-108, 6:25-7:55 PM					
13	08-12 May.	Frequency Domain Analysis (continued).	9.8,9.9,9.12	12	Exp # 10 : The oscilloscope and function generator
14	15-19 May.	Average and Reactive Power, Complex Power	10.1-10.5	13	Exp # 11 : Sinusoidal AC analysis
15	22-26 May.	Maximum Power Transfer, Selected Problems	10.6	14	Final Lab Exam

Grade Distribution:

Major Exams	28%
Quizzes	12%
Design Project	5%
Laboratory	20% (3% Pre-Labs + 10% Lab Reports + 7% Lab Quizzes)
Final Exam	35%

Homework List

HW #1: 1.13, 1.15, 1.21, 2.6,2.9,2.12	HW #8: 5.10, 5.19, 6.4, 6.6, 6.14,6.30
HW #2: 2.13, 2.14, 2.21, 2.25, 2.27	HW #9: 7.6, 7.14, 7.19, 7.28, 7.58
HW #3: 3.8(a), 3.12,3.15, 3.46,3.51	HW #10: 7.65,7.88, 9.1, 9.2,9.3,9.6,9.8
HW #4: 4.5,4.9,4.23, 4.24, 4.26, 4.32	HW #11: 9.10,9.11,9.22,9.23
HW #5: 4.38,4.42,4.51, 4.53, 4.54	HW #12: 9.31, 9.35, 9.42, 9.50
HW #6: 4.55,4.58,4.59, 4.61, 4.66	HW #13: 10.1, 10.5, 10.10, 10.12
HW #7: 4.75, 4.76, 4.77, 4.90, 4.92	HW #14: 10.20, 10.21, 10.22, 10.31, 10.33

Important Points to Remember

- Home-work: The homework assignments are to be solved by the students. However, homework solution will not be collected. Instead, a quiz related to the homework problems is expected in the week following the homework assignment date. Homework solutions will be posted on the web on the link: <http://faculty.kfupm.edu.sa/ee/malek/courses.htm>.
- Pre-Labs: Each student must submit the pre-lab. Assignment at the beginning of each lab. (no pre-labs for the first two experiments). No pre-lab will be accepted for an experiment that has already started.
- Lab. Makeup: No lab. make-up will be allowed without an official excuse.
- Attendance: According to the university regulations, any student that exceeds 20% of the scheduled class meeting without an official excuse will receive a grade of DN in the course.
- Official excuses: All official excuses must be submitted to the instructor no later than one week of the date of the official excuse. The instructor may not accept a late excuse. Personal excuses will not be entertained.