

EE 201 ELECTRIC CIRCUITS
First Semester (091) Tentative Schedule

INSTRUCTOR	OFFICE	PHONE	OFFICE HOURS	E-MAIL
Dr. A. Zidouri	59-0078	3677	SMW: 08:00-09:00	malek@kfupm.edu.sa

Textbook: *ELECTRIC CIRCUITS*, Nilsson & Riedel, 8th. Edition, 2008

Wk	Date	Topics	Text	H.W.	Laboratory/Tutorial
1	03-07 Oct.	Circuits Variables, Sources	1.1-1.6,2.1	1	No Experiment
2	10-14 Oct.	Ohm's Law, KCL, KVL, Dependent Sources	2.2-2.5	2	Exp # 1 : Electrical circuits simulation using Multisim Electronics Workbench : An Introduction
3	17-21 Oct.	Resistive Circuits, Nodal Analysis	3.1-3.4, 3.7,4.1.	3	Exp #2 : Electric circuit fundamentals
4	24-28 Oct.	Nodal Analysis (Continued), Mesh Analysis	4.2-4.5	4	Exp # 3 : Resistors in series, color codes & power rating
5	31Oct-04 Nov.	Mesh Analysis, Source Transformation,	4.6-4.9,	5	Exp # 4 : Kirchhoff's laws
Major Exam I, Nov. 4th (Sections 1.1-4.9), 7:00 – 08:30 p.m.					
6	07-11 Nov.	Thevenin And Norton Eq. Circuits.	4.10-4.11	6	No Exp.
7	14-18 Nov.	Max. Power Transfer, Superposition.	4.12-4.13,5.1-5.2	7	Exp # 5 : Series & parallel circuits, voltage divider & current divider rules
Eid Al Adha Break					
8	05-09 Dec.	Operational Amplifiers	5.3-5.6	8	Exp # 6 : Superposition theorem
9	12-16 Dec.	Inductors, Capacitors, First Order Circuits	6.1-6.3,7.1-7.2	9	Exp # 7 : Thevenin's theorem and maximum power transfer
10	19-23 Dec.	First Order Circuits (Continued)	7.3-7.7	10	Exp # 8 : DC sweep analysis
Major Exam II, Sat. Dec. 26th, (Sections 4.10-9.2), 07:00-08:30 p.m.					
11	26-30 Dec.	First Order Circuits (contd.), Sinusoidal Response, Complex Numbers	9.1-9.2, Appendix B.	11	Exp # 9 : Transients of a first order RC circuit
12	02-06 Jan.	Frequency Domain Analysis.	9.3-9.7	12	Exp # 10 : The oscilloscope and function generator
13	09-13 Jan.	Frequency Domain Analysis (continued).	9.8,9.9,9.12	13	Exp # 11 : Sinusoidal AC analysis
14	16-20 Jan.	Average and Reactive Power, Complex Power	10.1-10.5	14	Final Lab Exam
15	23-27 Jan.	Maximum Power Transfer, Selected Problems	10.6		
1 Feb.	Final Exam February 1st Monday 7:30 am				

Grade Distribution:

Major Exams	30%
Quizzes, Hw. & Att.	10%
Design Project	5%
Laboratory	20% (3% Pre-Labs + 10% Lab Reports + 7% Lab Final)
Final Exam	35%

Homework List

HW #1: 1.12, 1.13, 1.19, 1.26 HW #2: 2.4, 2.6, 2.12, 2.20, 2.25, 2.26 HW #3: 2.28, 2.29, 3.4, 3.7, 3.8
 HW #4: 3.13, 4.3, 4.15, 4.19, 4.25, 4.27, 4.29 HW #5: 4.51, 4.52, 4.55, 4.56,4.59 HW#6: 4.60, 4.63, 4.67, 4.68, 4.70
 HW #7: 4.73, 4.75, 4.86, 4.88 HW #8: 5.2, 5.10, 5.13, 6.2, 6.4, 6.13 HW #9: 7.4, 7.10, 7.11, 7.21, 7.35
 HW #10: 7.46, 7.47, 7.63, 7.84, 9.1, 9.6, 9.8 HW #11: 9.9, 9.10, 9.13, 9.14 HW #12: 9.15, 9.26, 9.32, 9.36
 HW #13: 9.51, 10.1, 10.3, 10.4, 10.7 HW #14: 10.9, 10.17, 10.19, 10.22, 10.29

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 **WebCT** or 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.