

*In the name of Allah, Most Gracious, Most Merciful.*  
**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**



**Electrical Engineering Department**  
**EE 201-4 (SMW 7-116, 10:00-10:50 am) and EE 201-6 (SMW 7-229, 1:10-2:00 pm)**  
**ELECTRIC CIRCUITS, SPRING 2005/2006 (052) Schedule**

**Text Book: *ELECTRIC CIRCUITS*, Nilsson & Riedel, Sixth Edition, 2001**

**Instructor: Husain M. Masoudi, Ph.D., Office: 14-262 Office Hours: (SMW 11:00-12:00 am)**

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**Course web site in WebCT <http://webcourses.kfupm.edu.sa>**

**My Web: <http://faculty.kfupm.edu.sa/ee/husainm/>**

Wk	Date	Topics	Text	HW
1	13-16 Feb*	Circuits Variables, Sources, Ohm's Law, KCL, KVL	1.1-1.6, 2.1-2.4	1
2	18-22 Feb.	Dependent Sources, Resistive Circuits, Nodal Analysis	2.5, 3.1-3.4, 3-7, 4.1-4.2	2
3	25-1 March	Nodal Analysis (Continue), Mesh Analysis	4.3-4.5	3
4	4-8 March	Mesh Analysis, Source Transformation	4.6- 4.9	4
5	11-15 March	Thevinin and Norton Equivalent Circuits.	4.10-4.11	5
<b>First Major Exam, Mon., 20<sup>th</sup> March 2006, 6:15 pm, 7-121, (Sections 1.1-4.11)</b>				
6	18-22 March	Max. Power Transfer, Superposition.	4.12-4.13, 5.1-5.2	6
7	25-29 March**	Operational Amplifiers	5.3-5.6	7
8	3-5 April+	Inductors, Capacitors, First Order Circuit	6.1-6.3, 7.1-7.2	
9	8-12 April	First Order Circuits (Continued)	7.3-7.7	8
10	15-19 April	Sinusoidal response, complex numbers.	9.1-9.2, App. B	9
11	22-26 April	Frequency Domain Analysis	9.3-9.7	10
12	29-3 May	Frequency domain analysis(continued)	9.8-9.9, 9.12	11
<b>Second Major Exam, Sun., 7th May 2006, 6:45 pm, 7-121, (Sections 4.12-9.2)</b>				
13	6-10 May	Average and reactive power, complex power	10.1-10.5	12
14	13-17 May	Maximum power transfer.	10.6	13
15	20-27++	Review		14
<b>29 May-8 June., 2006 Final Examination</b>				

\* Normal Saturday Classes on Thursday, 16 February, 2006.

\*\* Last day for dropping the course with grade W is 29 March, 2006

+ 1-2 April Midterm Break

++ Saturday, 27 May 2006: Last day of classes in our course

**Grade Distribution:**

Major Exams	30%
Class work	15%
Laboratory	20%
Final Exam (comprehensive)	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**

- Homework:** Homework is to be solved completely by the students. However, homework solution will not be collected. Instead, a quiz is expected every Wednesday that cover materials up to previous Wednesday's class. Homework solutions will be posted on WebCT.
- Lab. Makeup:** No lab. makeup 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. A late excuse may not be accepted by the instructor.
- Work:** This course is one of the most important course in the Electrical Engineering Dep. and requires hard work and continuous attention. Therefore, it is advisable that students do extra efforts to understand it.
- All course lectures are available online through the Web-CT. You are strongly encouraged to systematically review those online lectures to enhance your understanding of the course material.