King Fahd University Of Petroleum & Minerals
Department of Electrical Engineering
EE 204 Fundamentals of Electric Circuits

Tentative Schedule: 2007-2008 Second Semester (072)

INSTRUCTORS	OFFICE	Sec#	PHONE	E-MAIL	OFFICE HOURS
Jamil Bakhashwain	**59-2096**	**04**	**3262**	**jamilb@kfupm.edu.sa**	**U,T 11:15-12:00**

Text: ***FUNDAMENTALS OF ELECTRIC CIRCUIT ANALYSIS***, Clayton Paul, Wiley & Sons. Inc., 2001

Wk	Date	Topics	Text	Laboratory/Tutorial
1	16 Feb.	Introduction, Basic Definitions, KCL, KVL	1.2 – 1.6	No Meeting
2	23 Feb.	Conservation of power, Series & Parallel Connection of Elements, Ohm's Law	1.7 – 1.8, 2.1 – 2.3	**Exp #1** Resistors and Ohm's Law
3	1 March	Resistors in Series and in Parallel, Voltage and Current Division	2.4 – 2.6	**Exp #2** Kirchhoff's Laws
4	8 March	Source Transformation, Principle of Superposition	2.7, 3.1	**Exp #3** Computer Simulation of DC Circuits
5	15 March	Thevenin Theorem, Norton Theorem	3.2 – 3.3	**Problem Session # 1**
6	22 March	Maximum Power Transfer, Node Voltage Method	3.4 – 3.5	No Meeting
Major Exam I (1.2–3.3) March 25, 2007 (08:00 to 09:30 PM)*				
7	29 March	Node Voltage Method, Mesh Current Method	3.5 (Cont.) – 3.6	**Exp #3** Experimental Part
8	5 April	Capacitors, Inductors, Series and Parallel Connections	5.1 – 5.2	**Exp #4** Current & Voltage Divider
Midterm Vacation				
9	19 April	Sinusoidal Source, Complex Numbers, Frequency Domain (Phasor) Circuit.	6.1 – 6.3	**Exp#5** Superposition, Thevinin & Norton Theorems
10	26 April	Frequency Domain Analysis	6.4 – 6.5	**Problem Session # 2**
11	3 May	Power Concepts, Average Power	6.6	No Meeting
Major Exam II (3.4 –6.5) **May 5, 2008 (08:00 to 9:30 PM)***				
12	10 May	Power Factor, RMS Values	6.6	**Exp #6** Frequency Domain Analysis
13	17 May	Commercial Power Distribution, Three Phase Circuits	6.9	**Exp #7** Max. Power Transfer
14	24 May	Three Phase Circuits, Star-Delta Connections	6.9	**Exp #8** Average and RMS Values
15	31 May	Review		**Final Lab Exam**
Final Examination: Comprehensive				

Grade Distribution:

Design Problem	Class work	Major I*	Major II*	Laboratory	Final Exam
3 %	**12 %**	**15 %**	**15 %**	**20 %**	**35 %**

* Location of major exams will be posted later.

** Details are to be given by your instructor.

Suggested Practice problems:

HW # 1	**Ch. 1:**	1.3-1, 1.4-5, 1.5-5, 1.6-2, 1.6-6, 1.7-2, 1.8-2
HW # 2	**Ch. 2:**	2.2-5, 2.2-7, 2.3-2, 2.3-8, 2.4-3, 2.4-10, 2.5-7, 2.5-11
HW # 3	**Ch. 2: & Ch. 3:**	**Ch.2:** 2.6-4, 2.7-3, 2.7-5, **Ch.3:** 3.1-2, 3.1-4, 3.2-2, 3.2-4
HW # 4	**Ch. 3:**	3.2-6, 3.2-12, 3.3-2, 3.3-4, 3.3-6, 3.3-12
HW # 5	**Ch. 3:**	3.5-2, 3.5-7, 3.6-2, 3.6-7
HW # 6	**Ch. 5:**	5.1-3, 5.1-6, 5.1-8, 5.2-3, 5.2-6, 5.2-8, 5.4-2
HW # 7	**Ch. 6:**	6.1-1(b,f), 6.1-2(a,f,g), 6.2-1(d,f), 6.2-5(b,d)
HW # 8	**Ch. 6:**	6.3-4, 6.3-7, 6.4-4, 6.4-7, 6.4-12
HW # 9	**Ch. 6:**	6.4-16, 6.4-17, 6.5-1, 6.5-4, 6.5-8

Important Points to Remember

1. **Practice Problems:** Practice problems are to be solved completely by the students. solutions will be posted in **WebCT.**
2. **Problem Sessions**: All problem sessions will be held during the lab time.
3. **Lab. Makeup:** No lab makeup will be allowed without an official excuse from students affairs.
4. **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.
5. **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 late excuses.