KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
ELECTRICAL ENGINEERING DEPARTMENT

EE-201 ELECTRIC CIRCUITS

Fall Semester (952)

Textbook: ELEMENTARY LINEAR CIRCUIT ANALYSIS, Bobrow, 2nd Edition, 1987.

Week	Date	Topics	Text	H.W.	Lab. Session
1	25 - 28 Feb. 7 - 10 Shawal	Introduction, Sources, Resistors & Ohm' Law, KCL	1.1, 1.2, 1.3		No meeting
2	2 - 6 Mach 13 - 17 Shawal	KVL, Dependent Sources, Instantaneous Power	1.4, 1.5 1.6	Set # 1	Introductory Exp # I Measurement Meters
3	9 - 13 Mach 20 - 24 Shawal	Nodal Analysis Mesh Analysis	2.1, 2.2 2.3	Set # 2	Prob. session # 1
4	16 - 20 March 27 Shaw. - 1 Qa'dah	Mesh Analysis (contd.) Op-Amps	2.4 3.1	Set # 3	Introductory Exp # II Function Generator
5	23 - 27 March 4 - 8 Qa'dah	Nonideal Sources Thevenin's Theorem	3.2 3.3	Set # 4	Prob. session # 2
6	30 March - 3 April 11 - 15 Qa'dah	Norton's /Maximum Power Transfer The Principle of Superposition	3.4 3.5	Set # 5	Exp. # 1 Resistors
7	6 - 10 April 18 - 22 Qa'dah	Inductors, Capacitors Step, Ramp and Impulse functions	4.1, 4.2 4.3, 4.4	Set # 6	Prob. session # 3
8	13 - 17 April 25 - 29 Qa'dah	Integral relation & Series and Parallel Initial Conditions	4.5, 4.6 4.7	Set # 7	Exp. # 2 Network Theorems
	20 April (3 Hejjah)	**Review**			
	21 April (4 Hejjah)	**Library Reading**			
Id al-Adha Vacation					
9	4 - 8 May 17 - 21 Hejjah	Zero-Input Response Zero-State Response	5.1 5.2	Set # 8	Exp. # 3 The oscilloscope
10	11 - 15 May 24 - 28 Hejjah	Complex Number Frequency-Domain Analysis	8.2 8.3	Set # 9	Exp. # 4 Transient Analysis
11	18 - 22 May 1 - 5 Muhrram	Frequency-Domain Circuit Concepts Additional Sinusoidal Circuits	8.4 8.5	Set # 10	Prob. session # 4
12	25 - 29 May 8 - 12 Muhrram	Average Power Effective Values	9.1 9.2	Set # 11	Exp. # 5 Freq.-Domain Analysis
13	1 - 5 June 15 - 19 Muhrram	Important Power Concepts: power factor, compx. power, Single-phase three-wire ckt.	9.3	Set # 12	Prob. session # 5
14	8 - 12 June 22 - 26 Muhrram	Three-Phase Circuits Delta Connections	9.4 9.5	Set # 13	Exp. # 6 Max. Power Transfer
15	15 - 19 June 29 Muh. - 3 Safar	Power Measurement: Review	9.6		Final Lab Exam
Final Examinations					

Grade distribution

Laboratory20% [3% Pre-lab + 9% Lab-report + 8% Final-lab Exam: June 16,
Secs. 1-10 in Bul. 10 & Secs. 11-14 in Old-Audit. Bul]

Major Exams 30% [Major Exam I: April 6 (1.1-3.1), Secs. 1-10 in Bul. 10 & Secs. 11-14 in - Bul. 14-1
Major Exam II: June 8 (3.2-9.2), Secs. 1-10 in Bul. 10 & Secs. 11-14 in Old-Audit. Bul]

Class work15% [Quiz, Home-works, Attendance]

Final Exam 35%

(Notice: all exams, except Final, start at 8:30pm)

Important Items to Remember

1) **Problem sessions:** All problem sessions will be held during the lab periods in room 26/250.
2) **Home-works:** Each Set will be distributed by the course instructor on Saturdays and has to be submitted back on Saturday of the next week. Solutions will be posted after word at the following locations:

a- Building 26, in the Bulletin board between rooms 248 & 249.
b- Building 21, 2nd floor.
c- EE Club.

3) **Pre-labs:** Each student must submit the pre-lab assignment at the beginning of each lab (no pre-labs for the first two introductory experiments). No pre-lab will be accepted if the lab instructor started the experiment.
4) **Lab-reports:** Each student must submit his own lab-report before he leaves the lab-room.
5) **Lab-makeup:** No lab-makeup will be allowed without an official excuse.
6) **Attendance:** According to the university regulations, any student exceeds 20% of the scheduled class meetings without an official excuse, will receive WF in the course.
7) **Academic dishonesty:** According to the university regulations, if any student is discovered by his instructor for any instance of academic dishonesty, he may give a failing (F) grade to the student and report it to the dean of engineering collage.

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EE-201 Coordinator