

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
Electrical Engineering Department

EE 201 ELECTRIC CIRCUITS
Summer Term (053) Tentative Schedule

INSTRUCTOR	OFFICE	PHONE	OFFICE HOURS	E-MAIL
Dr. Hussain Alzaher	14-272	1434	SUMTWTW 11:40-12:30PM	alzaherh@kfupm.edu.sa

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

Wk	Date	Topics	Text	H.W./ Quiz	Laboratory/Tutorial
1	July 24-28	Circuits variables: voltage and current, power and energy, ideal sources, Ohm's Law, KCL, KVL	1.1-1.6, 2.2-2.5	H.W. # 1	No Lab. Exp # 1 Multisim Electronics Workbench
2	July 1-5	Circuits with Dependent Sources Resistive Circuits, Nodal Analysis	3.1-3.4	Quiz # 1 H.W. # 2	Exp # 2 Electric Circuit Fundamentals Exp # 3 Resistors in Series, Color Codes & Power Rating
3	July 8-12	Nodal Analysis (cont.), Mesh Analysis, Source Transformation	4.1-4.9	Quiz # 2 H.W. # 3	No Exp. Exp # 4 Kirchoff's Laws
Sunday July 16: Major Exam I (In Class)					
4	July 15-19*	Thevenin And Norton Eq. Circuits. Max. Power Transfer, Superposition.	4.10-4.11 4.12-4.13, 5.1-5.2	H.W. # 4	Exp # 5 Series & Parallel Circuits, VDR & CDR Exp # 6 Superposition Theorem
5	July 22-26	Operational Amplifiers Inductors, Capacitors, First Order Circuits	5.1-5.6 6.1-6.3, 7.1-7.2	Quiz # 3 H.W. # 5	Exp # 7 Thevenin's Theorem and Maximum Power Transfer Exp # 8 DC Sweep Analysis
6	July 29** - Aug. 2	First Order Circuits (Cont.) Sinusoidal Response, Complex Numbers Frequency Domain Analysis.	7.3-7.7 9.1-9.2, Appendix B.	Quiz # 4 H.W. # 6	Exp # 9 Transients of a First Order RC Circuit Exp # 10 The Oscilloscope and Function Generator
Sunday Aug. 6 : Major Exam II (In Class)					
7	Aug. 5-9	Frequency Domain Analysis. Average and Reactive Power, Complex Power	9.3-9.7 10.1-10.5	Quiz # 5 H.W. # 7	Exp # 11 Sinusoidal AC Analysis Lab. Test
8	Aug. 12-14	Maximum Power Transfer	10.6		No Lab.

*July 18 is the last day for W

** July 29 is the last day for dropping all courses

Grade Distribution:

Two Major Exams	30%
Quizzes	10%
Attendance & Participation	5%
H.W.	5%
Laboratory	20% (3% Pre-Labs + 7% Lab Reports + 5% Lab Quizzes 5% Lab. Final)
Final Exam	30%

Home work list:

H.W #1: 1.9, 1.10, 1.13, 1.19, 2.4, 2.5, 2.6, 2.7, 2.12, 2.13, 2.20, 2.25, 2.27

H.W #2: 3.4, 3.7(c), 3.8, 3.13, 4.3, 4.15, 4.19, 4.25, 4.27, 4.29, 4.33

H.W #3: 4.51, 4.52, 4.55, 4.56, 4.59, 4.60, 4.63, 4.67, 4.68, 4.70

H.W #4: 4.73, 4.75, 4.86, 4.88, 5.2, 5.10, 5.13, 6.2, 6.4, 6.13

H.W #5: 7.4, 7.10, 7.11, 7.21, 7.35, 7.46, 7.47, 7.63, 7.84, 9.1, 9.8

H.W #6: 9.6, 9.9, 9.10, 9.13, 9.14, 9.15, 9.26, 9.32, 9.36, 9.51

H.W #7: 10.1, 10.3, 10.4, 10.7, 10.9, 10.17, 10.19, 10.22, 10.29, 10.34

Important Points to Remember

- Home-work: No late homework will be graded. Solutions will be posted in the class web page.
- 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 if the lab. instructor has already started the experiment.
- 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.