

EELE 2305 - Electronics I
Electrical Engineering's students
Course Syllabus

“Energy is the power that drives every human being. It is not lost by exertion but maintained by it.”
Germaine Greer, b. 1939

Instructor	Dr. Hala J. El-Khozondar Office: E204 Email: hkhonzondar@iugaza.edu
Meetings	Room L501 on Saturday, Monday, Wednesday from 8:00-9:00
Teaching Assistant	Eng. Ruba Salamah
Prerequisite:	Electric circuits I
Topics	Introduction to PN junction Semiconductor Diode and its applications Special purpose diodes and their applications Bipolar Junction Transistors (BJT); DC and small AC signal analysis Field Effect Transistors (FET); DC and small AC signal analysis
Textbook	Thomas L. Floyd, Electronic Devices, 4 th ed., Prentice-Hall, 2002.
Helpful site	http://wps.prenhall.com/chet_floyd_electronic_7
Reference	1- Robert Boylestad and Louis Nashelsky, Electronic Devices and Circuit Theory, Sixth Edition, 1996. 2-M. Kaufman and J. Wilson, Electronic Technology, Schaum's Outline series. 3- Charles A. Schuler, Electronics Principles and Applications, 1979 4- Albert P. Malvino, Electronics Principles, 3 rd ed., 1998.
Course Objectives	To know the characteristics of electronic components such as diodes and transistors To be familiar with their applications To be able to analysis simple electronic circuits To be able to use computer software (Orcad or Multisim) to analyze electronic circuits
Intended Learning Outcomes	To design a power supply using diodes To build an amplifier circuit using transistors To analyze a given electronic circuit
Assessment	Midterm Exam (35%) Assignments (10%) Quizzes (10%) Final Exam (45%)
Homework Policy	Homework assignments will be given in a regular basis. Each assignment is to be returned within one week. No delay will be accepted except with good excuse.
Office Hours	As posted on the office's door, or by appointment.

Course outline:

Teaching starts on Saturday: January 28, 2006 and ends on Monday: May, 15, 2006
(15 weeks)

Chapter number	Number of Weeks (number of meetings)	Homework problems
Chapter 1	1 (3 meetings)	Self Test: 16, 18, 28, 33, 34 Problems: 16(c, d), 18 (b, c), 19
Chapter 2	2 (6 meetings)	1(b), 3, 4, 5(c, d), 8, 11, 17, 22(c), 23 (f), 25(a), 28(b, c), 35, 41
Chapter 3	1 (3 meetings)	6, 9, 13, 15, 28
Chapter 4	2 (6 meetings)	8, 15, 18 (a), 22, 25
Midterm	Sunday, March 26	11:00-12:30
Chapter 5	1 (3 meetings)	1, 6, 10, 14, 17, 21, 26
Chapter 6	3 (6 meetings)	3, 6, 8, 12, 23, 25, 29, 31, 37
Chapter 7	2 (4 meetings)	9, 13, 16, 19, 21, 24, 35 (b), 38 (b), 40
Chapter 8	1 (3 meetings)	3, 6, 7, 13, 20, 23, 27, 30
Final	Sunday, May 25	12:00-3:00