

The Hashemite University Faculty of Engineering Course Syllabus

Course Title:	Electrical Circuits for non EE	Course Number	r:	409208	
Department:	Electrical Engineering	Designation:		Compulsory	
Prerequisite(s):	Physics I				
Instructor:	Ashraf A. Ali	Instructor's Office:		E. 3057	
Instructor's e-mail:	ashraf@hu.edu.jo	X			
Office Hours:	(11:00-12:00)) Sun, Tus, Thu, (11:00-12:30)) Mon, Wed, Monday Wednesday :12:30-1:00 Class Room: Bio 121				
Time:	Monday, Wednesday :12:30-	1.00			
Course description:	Units, definitions, independent sources, dependent sources, Ohm's law, Kirchoffe's laws, division rule. Nodal analysis, Mesh Analysis, Linearity and superposition, Thevenin's and Norton's theorems. Inductance and capacitance, source free RL and RC circuits, RLC circuits, Operational Amplifiers and applications.				
Textbook(s):	"Principles and Applications of Electrical Engineering", 5 th Edition, Giorgio Rizzoni, McGraw-Hill, 2007.				
Other required material:	Lecture Notes				
Course objectives:	The Student should be able to: - Discuss and explain the circuits theory Develop the student problem solving skills Develop the student analysis and design skills.				
Topics covered:	 ▼ Fundamentals of electrical Circuits. ▼ Resistive Network Analysis. ▼ AC Network Analysis. ▼ Transient Analysis. ▼ Diodes and Operational Amplifiers. 				
Class/laboratory schedule:	Monday , Wednesday : 2 class sessions weekly; 75 minutes each.				
Grading Plan:	First Exam (20 Points) Second Exam (20 Points) HW, Attendance (10 Points) Final Exam (50 Points) Will be announced by the registrar				
General Notes:	Attendance is mandatory and students are allowed 15% absence Discussion is encouraged: No question is dumb You may come in late but don't disturb Office hours are to your benefit; utilize them				