Republic of Iraq The Ministry Of Higher Education & Scientific Research



University: Diayla College: Engineering Department: Fundamental of Electrical Circuits Stage: first Lecturer name: Hayder Salim Hameed Qualification: Asst. Lec. Place of work

Flow up of implementation celli pass play

Course Instructor	Hayder Salir	n Hameed				
E-mail	hayderalskooki@yahoo.com					
Title	Fundamental of Electrical Circuits					
Course Coordinator	3 Hours per	week (annual	system)			
Course Objective	Introduce students to the basic elements of electrical circuits and how to deal with them in identifying all of the voltages , current and power etc.					
Course Description	Study the basic elements of the circuits (resistors, Almtsat, capacitors, voltage sources) and how to deal with these departments to resolve issues to find voltages and current, resistance, power and in phasic DC and AC					
Textbook	Boylestad, R, L., Introductory Circuit Analysis (4 th Edition), Charles E. Merill Pubishers.					
Course Assessments	Term Tests	Laboratory	Quizzes	Project	Final Exam	
	As(ro%)	-	As(•%)	-	As(ヽ・½)	
General Notes						

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Course Weekly Outline

We	Date	Topes Covered	Lab. Experim	Notes			
ek			Assignm				
			ents				
١	22/11/2015	Circuit Variables and Circuit Element System of units, voltage and current, circuit elements,					
۲	2/17/7.12	Voltage and current source, electrical resistance and conductance.					
٣	11/17/7.12	Ohm's and Kirchoffs law, power and energy.					
٤	14/17/7.15	Circuit Transformations Resistances in series and parallel, source transformation.					
٥	70/17/7.12	Current and voltage division, delta-star and star-delta transformations.					
٦	1/1/7.10	OFF Day	I				
٧	۸/۱/۲۰۱۵	Techniques of Circuit Analysis Basic terminology, the loop current method.					
٨	10/1/7.10	The node voltage method, Circuit Theorems: Superposition,					
٩	22/1/2010	Thevenin's, Norton's, reciprocity,					
١.	29/1/2010	Monthly Exam.					
	Half – year break						
11	19/7/7.10	Maximum Power Transfer					
17	TT /T / T. 10	Sinusoidal Alternating Current Ac generation, polarities and directions, RMS and average values,					
١٣	0/8/1.10	Circuit elements in the phasor domain, power factors.					

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١٤	17/8/7.10	Phasors AC current through various circuit element,	
10	19/7/7.10	Operations with complex number, phasor diagram	
17	77 /7 / 7.10	AC Power Calculations Active, reactive and apparent power,	
1 V	۲/٤/۲۰۱٥	Power in complex form, the power triangle	
١٨	9/2/7.10	Resonance in AC Circuits Frequency response of various circuit element,	
١٩	17/2/7.10	Resonance in series and parallel circuits,	
۲.	78/2/7.10	Quality, factor, the half power frequencies.	
۲۱	۳۰/٤/۲۰۱٥	Circuit theorem in AC circuits Loop and node voltage methods in AC circuits,	
۲۲	V/ 0 / Y • 10	Magnetic Circuits Magnetic filed, characteristics of lines of magnetic flux, magnetic filed due to an electric current, mmf,	
۲٣	15/0/7.10	Magnetic filed strength, magnetic constants reluctance, Kirchoffs laws for magnetic circuit,	
٢٤	21/0/2010	Series and parallel magnetic circuit.	
70	27/0/2010	Monthly Exam.	
۲٦		Final Exam.	

INSTRUCTOR Signature:

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