

Flow up the implementation of course syllabus

Course Instructor	Khalid hussein aljewary				
E_mail	Mr.Khalid7902@gmail.com				
Title	Electric circuits				
Course Coordinator	3 hours weekly				
Course Objective	Prepare the students to realize the fundamentals and principles of the advanced electric circuits .				
Course Description	The subject is divided into the following chapters : Chapter one: First-order circuits . Chapter two: Three-phase circuits Chapter three: Two-port networks . Chapter four: Magnetically-coupled circuits . Chapter five: Frequency response . Chapter six : Second-order circuits .				
Textbook	Fundamentals of electrical circuits by Charles k.Alexander ,and Mathew N.O.Sadiku				
Course Assessment	First Term	Mid-Year	2 nd Term	Project	Final xam
	20 %		20 %	----	60 %
General Notes	There is an additional reference for the subject which is : Schaums series in electrical circuits by Edminister				

Republic of Iraq

The Ministry of Higher Education

& Scientific Research



University: Diyala

College: Engineering

Department: Communications

Stage: Second year

Lecturer name: Khalid hussein
aljwary

Academic Status: lecturer

Qualification: M.sc

Place of work: Communications

Course Weekly Outline

week	Date	Topics Covered	Lab. Experiment Assignments	Notes
1	2-10	Transient for RL circuits		
2	9-10	Transient for RC circuits		
3	16-10	Transient for RLC circuits		
4	23-10	Laplace transform for RL circuit		
5	30-10	Laplace transform for RC circuit		
6	6-11	Laplace transform for RLC circuit		
7	13-11	Star-star in poly phase circuits		
8	20-11	Star-delta in poly phase circuits		
9	27-11	Delta-delta in poly phase circuits		
10	4-12	Delta-delta in poly phase circuits		
11	11-12	Real Power in balanced loads		
12	18-12	Real Power in unbalanced loads		
13	25-12	Complex Power in balanced loads		
14	1-1	Complex Real Power in unbalanced loads		Holiday
15	8-1	Self-inductance		
16	15-1	Self-inductance		
18	22-1	Mutual-inductance		
19	29-1	Mutual-inductance		
20	26-2	Coupling coefficient		
21	2-4	Two-port network		
22	9-4	Z-parameters in two-port network		
23	16-4	Y-parameters in two-port network		
24	23-4	h-parameters in two-port network		
25	7-5	g-parameters in two-port network		
26	14-5	Tutorials for the two port- networks		
27	21-5	Low-pass filter		
28	28-5	High-pass filter		
29	4-6	Band-pass filter		
30	11-6	Band-reject filter		

Instructor Signature:

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