

CIRCUIT THEORY II

1	Course Title:	CIRCUIT THEORY II
2	Course Code:	EEM2102
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	4
7	ECTS Credits Allocated:	7.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Doç. Dr. FİGEN ERTAŞ
15	Course Lecturers:	Doç. Dr. Neyir ÖZCAN SEMERCI
16	Contact information of the Course Coordinator:	E-posta:fertas@uludag.edu.tr Tel: (224) 294 2017 Adres: Elektrik-Elektronik Mühendisliği Bölümü, 5.Kat, No:524
17	Website:	http://home.uludag.edu.tr/~fertas
18	Objective of the Course:	To provide a good understanding of basic concepts of AC circuit behavior, explain the concept of steady state, apply phasor analysis to AC circuits in sinusoidal steady state, analyze the frequency response of circuits containing inductors and capacitors, apply circuit theorems to AC circuits in sinusoidal steady state, analyze three-phase circuits, analyze filter circuits and simple two-port circuits
19	Contribution of the Course to Professional Development:	To help students gain ability of modelling, analysing, and solving in application to electriccal circuits.
20	Learning Outcomes:	
	1	Gain sufficient knowledge on circuit elements and their usage in circuits; the ability to model and solve electric circuit problems using theoretical and practical knowledge;
	2	Gain the ability to identify, model, and solve complex electric circuit problems; the ability to select and apply appropriate analysis and modelling methods for these problems;
	3	Gain the ability to design and conduct complex experiments and to collect, analyze and interpret data for electric circuit problems;
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21	Course Content:	
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ÖK2	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low		2 low		3 Medium			4 High			5 Very High					