	CI	RCUIT	THEORY II						
1	Course Title:	CIRCUIT THEORY II							
2	Course Code:	EEM2102							
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
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:	Yrd. Dog	c. Dr. Neyir ÖZCAN SEMERCİ						
16	Contact information of the Course Coordinator:	E-posta:fertas@uludag.edu.tr Tel: (224) 294 2017 Adres: Otomotiv Mühendisliği Bölümü Zemin Kat, No:108							
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:								
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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3	Node Voltage and Mesh Current Methods with Phasors																		
4	Superposition, Source Transform, Thevenin and Norton Theorems																		
5	Max	Pow	er Th	eorem	l				T										
6	AC Steady-State Power																		
7	Frequency Response and Resonances Circuits																		
8	Midterm Exam + Review of Past Lecturers																		
9	Filte	r Circ	cuits																
10	Circ	uit Ar	nalysis	s in s-c	doma	in													
11		nsfer pons		ion, S	tep ar	nd Impi	ulse												
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