

ELECTRONIC CIRCUITS II

1	Course Title:	ELECTRONIC CIRCUITS II
2	Course Code:	EEM3302
3	Type of Course:	Compulsory
4	Level of Course:	First Cycle
5	Year of Study:	3
6	Semester:	6
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	3.00
9	Practice (hour/week):	0.00
10	Laboratory (hour/week):	0
11	Prerequisites:	-
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. ELDAR MUSA
15	Course Lecturers:	Öğr. Gör. Dr. İsmail Tekin
16	Contact information of the Course Coordinator:	E-posta: eldar@uludag.edu.tr Tel: (224) 294 2015 Adres: Elektronik Mühendisliği Bölümü No:434
17	Website:	
18	Objective of the Course:	Acquire the necessary knowledge and skills for basic electronic circuits analysis and design
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	Learn the structure and features of the operational amplifiers, and the basic Op-Amp circuits
	2	Learn the feedback method, the basic characteristics of negative feedback amplifiers, series voltage, series current, parallel voltage, current feedback
	3	Learn Bode diagrams, amplifiers, stability analysis
	4	Learn Barkhausen criterion, RC sinusoidal oscillators, Wien oscillator, phase-shift oscillator, LC sinusoidal oscillators, Colpitts oscillator, Hartley oscillator, crystal oscillators, RC oscillators
	5	Learn power consumption and thermal characteristics, amplifier efficiency, power amplifier working classes
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21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	Structures, properties of operational amplifiers (op-amps) and basic op-amp circuits.	

ÖK2	0	4	4	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	4	3	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	4	3	2	0	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			