ANALOGUE ELECTRICS									
1	Course Title:	ANALOGUE ELECTRICS							
2	Course Code:	MKRZ10	4						
3	Type of Course:	Compuls	ory						
4	Level of Course:	Short Cy	cle						
5	Year of Study:	1							
6	Semester:	2							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	2							
11	Prerequisites:	None							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	ace						
14	Course Coordinator:	Öğr.Gör.	ERCAN YAVUZ						
15	Course Lecturers:	Öğr.Gör.	Ercan Yavuz						
16	Contact information of the Course Coordinator:	ercanyz@uludag.edu.tr dahili (0224)2942365 B.U.Ü. TBMYO Mekatronik Prg. Görükle Bursa							
17	Website:	3. 21.2.2.2							
18	Objective of the Course:	In this course, aimed to gain knowledge and skills for to set up circuit using electronic circuit elements and troubleshooting.							
19	Contribution of the Course to Professional Development:	The student can perform defined cellular design activities, easily produce mechatronic systems, perform maintenance, repair and revisions with what they have learned in the analog electronics course.							
20	Learning Outcomes:								
		1	Being able to use semiconductor elements						
		2	Being able to make connections of transistor circuits						
		3	Being able to set up transistor circuit according to the different polarity methods.						
		4 Being able to set up amplifier circuit with transistor							
		5	Being able to set up amplifier circuit with OPAMP.						
			Being able to set up the adder and subtractor circuit with OPAMP.						
		7	Being able to set up the derivative circuit with OPAMP.						
		9	Being able to set up the integral circuit with OPAMP.						
		10							
21	21 Course Content:								
\\/	Theoretical	Co	ourse Content:						
	Theoretical		Practice						
1	Definition of semiconductor		Introduction of laboratory						
3	Methods of transistor polarity		Common emitter circuit Common base circuit						
	Methods of transistor polarity		Common collector circuit						
4	Methods of transistor polarity		Common collector circuit						

5	Amplifiers with transistor		A class amplifier					
6	OPAMP circuits		Inverting input amplifier					
7	OPAMP circuits		Adder circuit with OPAMP					
8	Repeating Courses First Midterm		Adder circuit with OPAMP					
9	OPAMP circuits		Subtractor circuit with OPAMP					
10	OPAMP circuits		Derivative and integral circuit with OPAMP					
11	FETs and MOSFETs		FET circuit					
12	FETs and MOSFETs		Power supply circuit					
13	Repeating Courses Second Midterm		Power supply circuit					
14	Oscillator circuits		Oscillator circuit with crystal					
22	Textbooks, References and/or Other Materials:		Analog Elektronik (yayınlanmamış) ders notları					
23	Assesment							
TERMI	LEARNING ACTIVITIES	NUMBE R	WEIGHT					
Midterr	m Exam	1	40.00					
Quiz		0	0.00					
Home	work-project	0	0.00					
Final E	xam	1	60.00					
Total		2	100.00					
Contribution of Term (Year) Learning Activities to Success Grade			40.00					
Contrib	oution of Final Exam to Success Grade)	60.00					
Total			100.00					
Course			Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.					
24	ECTS / WORK LOAD TABLE							

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	14	2.00	28.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	1	6.00	6.00
Others	0	0.00	0.00
Final Exams	1	10.00	10.00
Total Work Load			120.00
Total work load/ 30 hr			4.00
ECTS Credit of the Course			4.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	3	0	1	2	4	5	4	3	0	5	4	0	0	0	0	0
ÖK2	0	0	2	2	4	5	4	3	0	4	5	0	0	0	0	0
ÖK3	3	0	1	4	5	5	3	2	4	5	4	0	0	0	0	0
ÖK4	0	1	1	2	3	5	3	2	1	4	4	0	0	0	0	0
ÖK5	0	0	1	5	5	3	3	2	4	5	4	0	0	0	0	0
ÖK6	1	1	0	3	5	5	4	3	3	4	4	0	0	0	0	0
ÖK7	1	1	2	2	4	5	4	2	3	5	5	0	0	0	0	0
ÖK8	1	2	1	2	5	5	5	5	4	4	4	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	n			3 Medium			4 High			5 Very High						