NUMERICAL DESIGN									
1	Course Title:	NUMER	ICAL DESIGN						
2	Course Code:	EMEZ10	4						
3	Type of Course:	Compuls	sory						
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):	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 f	ace						
14	Course Coordinator:	Öğr.Gör.	ERCAN YAVUZ						
15	Course Lecturers:	Öğr. Gör	. Ercan YAVUZ						
16	Contact information of the Course Coordinator:	dahili (02	@uludag.edu.tr 224)2942365, BMYO Mekatronik Prg. Görükle Bursa						
17	Website:	Ŭ T T T T T T T T T T T T T T T T T T T							
18	Objective of the Course:	and run	ourse, aimed to gain knowledge and skills for to make install of digital logic circuit design, sequential control circuits, circuits, register circuits, ADC and DAC circuits.						
19	Contribution of the Course to Professional Development:	cellular c	to the digital design course, the student can perform defined design activities, easily produce mechatronic systems, maintenance, repair and revisions.						
20	Learning Outcomes:								
		1	Being able to use of digital logic circuit elements						
		2	Being able to prepare logic table of stated problem						
		3	Being able to write logical function in simplified form.						
		4	Being able to use combinational logic circuits						
		5	Being able to use register circuits						
		6	Being able to use flip-flop circuits						
		7	Being able to design stated counter circuits						
		8	Being able to use ADC circuits						
		9							
	Course Comtant	10							
21	Course Content:		Contant:						
\\\\a\\\	Course Content: Theoretical Practice								
vveek 1	Elements of digital logic circuit		Practice						
2	Digital logic circuits								
3	Design of digital logic circuit								
4	Combinational logic circuits								
5	Encoders, Decoders								
	Enocacio, Decoucio								

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6	Multiplexers, demultiplexers							
7	Flip-Flops							
8	Repeating courses first midterm							
9	Synchronous counters							
10	Synchronous counters							
11	Registers							
12	Asynchronous counters							
13	Repeating courses second midterm							
14	ADC and DAC circuits							
22	Textbooks, References and/or Other Materials:		Course notes, Digital Design (M. Morris Mano)					
23	Assesment							
TERM LEARNING ACTIVITIES NUMBE			WEIGHT					
Midtern	n Exam	1	40.00					
Quiz		0	0.00					
Home v	work-project	0	0.00					
Final Exam 1			60.00					
Total		2	100.00					
	oution of Term (Year) Learning Activitiess Grade	es to	40.00					
Contrib	oution of Final Exam to Success Grade	9	60.00					
Total			100.00					
Measu Course		sed in the	Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.					
24	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	2.00	28.00		
Homeworks	0	0.00	0.00		
Projects	0	0.00	0.00		
Field Studies	0	0.00	0.00		
Midterm exams	1	10.00	10.00		
Others	0	0.00	0.00		
Final Exams	1	20.00	20.00		
Total Work Load			124.00		
Total work load/ 30 hr			4.13		
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	0	0	0	0	5	5	4	3	0	5	4	0	0	0	0	0
ÖK2	0	0	0	0	4	5	4	3	0	4	5	0	0	0	0	0
ÖK3	1	0	1	4	5	5	2	3	2	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	0	1	5	5	3	3	2	4	2	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	5	5	0	0	0	0	0
			LO: L	_earr	ning (Objec	tive	s P	Q: P	rogra	ım Qu	alifica	tions	<u>. </u>		
Contrib 1 very low ution Level:			2	2 low 3 Me			Medi	lium 4 High			5 Very High					