	NUI	MERIO	CAL DESIGN							
1	Course Title:	NUMER	ICAL DESIGN							
2	Course Code:	EMEZ10	)4							
3	Type of Course:	Compuls	sory							
4	Level of Course:	Short Cy	ycle							
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	ercanyz@uludag.edu.tr dahili (0224)2942365, B.U.Ü. TBMYO Mekatronik Prg. Görükle Bursa							
17	Website:									
18	Objective of the Course:	and run	s course, aimed to gain knowledge and skills for to make install run of digital logic circuit design, sequential control circuits, ter 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:									
		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\\\	Theoretical	Co	purse Content:							
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									

6	Mul	lultiplexers, demultiplexers																	
7	Flip	p-Flops																	
8	Rep	epeating courses first midterm																	
9	Syn	ynchronous counters																	
10	Syn	Synchronous counters																	
11	Reg	Registers																	
12	Asy	nchr	onous	count	ers														
13	Rep	eatir	ng cou	rses s	econ	d midte	rm												
14	ADO	Cano	J DAC	circui	ts														
22	Textbooks, References and/or Other Materials:							Со	Course notes, Digital Design (M. Morris Mano)										
23	Ass	esme	ent						_										
TERM L	LEAR	NINC	ACTI	VITIES	3			IUMBE	WE	IGHT									
Midterr	n Ev	am.					1 1		40	40.00									
Quiz	11 L	am					0			40.00 0.00									
									0.00										
	Home work-project 0 Final Exam 1									60.00									
Total										100.00									
								40.											
Succes	Contribution of Term (Year) Learning Activities to Success Grade																		
Activites								1	Number Duration (hour) Total Wo										
Measig	tical	nt ar	nd Eva	luatio	n Tec	hnique	s Use	d in th	e Mé	4 asure	ment a	ınd eva	lu <del>2ti</del> 89	is carri	ied out	<del>28</del> 69 Pdir	na to		
Practic										14			2.00			28.00			
Selfasti		<del>D</del> G P	repera	tion .		TAR			7	4			2.00	<del>,</del>	28.00				
Homev			VVC	KK I	<u> </u>	LIAB			C	)			0.00			0.00			
Project	ts								C	)			0.00		0.00				
Field S	Studie	s							C	0 0.00						0.00			
Midterr	m exa	ams							1	1 10.00						10.00			
Others									C	0 0.00						0.00			
Final E	xam	S							1	1 20.00						20.00			
Total V	Total Work Load														124.00				
Total work load/ 30 hr														4.13					
ECTS (	Cred	it of t	he Co	urse												4.00			
25				CON	TRIE	BUTIC	N OI				OUTO		S TO	PROC	GRAN	IME			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		

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

Contrib 1 very low ution Level:			2	2 low		3 1	3 Medium		4 High			5 Very High				
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	1	2	1	2	5	5	5	5	4	5	5	0	0	0	0	0
ÖK7	1	1	2	2	4	5	4	2	3	5	5	0	0	0	0	0
ÖK6	1	1	0	3	5	5	4	3	3	4	4	0	0	0	0	0
ÖK5	0	0	0	1	5	5	3	3	2	4	2	0	0	0	0	0