	ELECTRONIC CIRCUITS											
1	Course Title:	ELECTR	ELECTRONIC CIRCUITS									
2	Course Code:	BIL1104										
3	Type of Course:	Compuls	sory									
4	Level of Course:	First Cyc	cle									
5	Year of Study:	1										
6	Semester:	2										
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:	Prof. Dr.	ADEM UZUN									
15	Course Lecturers:											
16	Contact information of the Course Coordinator:	auzun@	uludag.edu.tr									
17	Website:											
18	Objective of the Course:	The aim knowled to them, circuit de	of this course is to provide prospective teachers with the lge of electronic circuit elements and basic theories related and also to gain the ability to make analog and digital esigns using basic circuit elements.									
19	Contribution of the Course to Professional Development:	lt enable purpose	es them to use the theories and applications specified in the of the course in their professional practice.									
20	Learning Outcomes:											
		1	To be able to explain the concepts of electricity and electronics.									
		2	Distinguish basic circuit elements.									
		3	To be able to explain Ohm's Law, Kirchhoff's Current and Voltage Laws.									
		4	To be able to use basic measuring instruments.									
		5	To be able to explain the fundamentals of digital electronics.									
		6	Ability to simplify digital circuit with Karnaugh Map.									
		7										
		8										
		9										
		10										
21	Course Content:											
		Co	ourse Content:									
Week	Theoretical		Practice									
1	Quantities and units											
2	Electric charge											
3	Conductors, semiconductors and ins	sulators										
4	Current											

5	Volta	Voltage																			
6	Resistance																				
7	Power																				
8	Basic circuit elements																				
9	Ohm's law																				
10	Branches, knots and loops																				
11	Kirchhoff's Current and Voltage Law, series and parallel resistors																				
12	Num	nber \$	Systei	ns																	
13	Digital electronics																				
14	Karn	naugł	n map	S																	
22	Textbooks, References and/or Other Materials:									Bell, David A. Fundamentals of Electric Circuits: Lab Manual. Oxford University Press, Inc., 2009. Nilsson, J. W., & Riedel, S. A. (2015). Electric circuits. Upper Saddle River, NJ: Pearson. Alexander, C., Sadiku, M., & Sadiku, M. Fundamentals of Electric Circuits, 2000.											
23	Asse	esme	ent						_												
TERM L	.EARI	NING	ACTI	VITIES	5		۲ F	NUMBE R	N	VEIC	GHT										
Midtern	term Exam 1								4	40.00											
Quiz	Jiz 0									0.00											
Home v	work-	proje	ect				C	)	0	00.00	)										
Activit	ctivites									Nu	umb	er		Duration (hour) Total W Load (h				Vork nour)			
Lontrio Theore	Contribution of Lerm (Year) Learning Activities to								4	14	0			3.00 42.00							
Practica	acticals/Labs									0				0.00		0.00					
Self stu	If study and preperation									12	00			4.00		48.00					
Homew	meworks									0				0.00			0.00				
Riciasu Broject Course	asurement and Evaluation Techniques Osed in the									10C 10 neti	ress t hod v	<del>evalua</del> vill be a	<del>non win</del> applied	in midte	n midterm and final exam.						
Field S	d Studies									0				0.00		0.00					
Midtern	term exams									1				10.00		10.00					
Others	ers													0.00			0.00				
Final E	al Exams									1				20.00		20.00					
Total W	al Work Load										210.00										
Total w	otal work load/ 30 hr									7.00											
ECTS (	ECTS Credit of the Course									7.00											
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																				
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	8 F	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	ť	5	5	4	4	4	4	0	0	C	)	0	0	0	0	0	0	0			
ÖK2	4	4	5	4	5	0	4	0	0	C	)	0	0	0	0	0	0	0			
ÖK3	4	4	4	5	5	0	4	0	0	C	)	0	0	0	0	0	0	0			
ÖK4	ť	5	5	4	5	0	5	0	0	C	)	0	0	0	0	0	0	0			

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