	BASIC ELEC	CTRIC	AND ELECTRONICS							
1	Course Title:	BASIC E	ELECTRIC AND ELECTRONICS							
2	Course Code:	EHAZ102								
3	Type of Course:	Compuls	sory							
4	Level of Course:	Short Cy	rcle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
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	face							
14	Course Coordinator:	Öğr. Gör. CAFER KAPLAN								
15	Course Lecturers:	Meslek Yüksekokulları Yönetim Kurullarının görevlendirdiği öğretin elemanları.								
16	Contact information of the Course Coordinator:	Öğr. Gör Cafer KAPLAN Bursa Uludağ Üniversitesi Teknik Bilimler MYO Hibrid ve Elektrikli Taşıtlar Prog. Görükle / Bursa								
17	Website:									
18	Objective of the Course:	The aim of this course is to provide basic knowledge and skills about electronic technology. To teach basic concepts and circuit structures of analog electronic circuits and to introduce semiconductor technologies.								
19	Contribution of the Course to Professional Development:	Students who successfully complete this course;  • Will be able to master the working principles of basic circuit elements.  • Will be able to make calculations with circuit analysis methods  • Will make an introduction to semiconductor diode technology.								
20	Learning Outcomes:									
		1	Will be able to master the working principles of basic circuit elements.							
		2	Will be able to make calculations with circuit analysis methods							
		3	Will make an introduction to semiconductor diode technology.							
		4								
		5								
		6								
		7								
		8								
		9								
		10								
21	Course Content:									
	Course Content:									

Week	Theoretical		Practice								
1	International unit systems SI unit system		control applications								
2	Basic elements used in electrical syst	tems	te	est and control applicati	ions						
3	Electric current, potential difference, resistance		-	est and control application							
4	Electrical energy sources, Conductors insulators and semiconductors Conduinsulating and semiconductor material	uctive,	test and control applications								
5	Concepts such as current, voltage, er power and electric charge Electric charge, energy, power	nergy,	test and control applications								
6	Ohm's Law, Resistor element and its application areas		te	test and control applications							
7	Resistance element, ohm law Kirchof currents and voltages.	f's law of	te	test and control applications							
8	Midterm Exam										
9	Analysis of DC circuits Kirchoff's laws applications	and	te	est and control application	ions						
10	AC signals, alternating current, period frequency, amplitude, RMS concepts	d,	test and control applications								
Activit	es			Number	Duration (hour)	Total Work Load (hour)					
Theore	ical		Γ	14	2.00	28.00					
Practic	als/Labs		_	14	2.00	28.00					
Self stu	குப்பாளி panelplevattege sources			4	14.00	56.00					
Homew	vorks		•	0	0.00	0.00					
Project	Friangie star connected circuits		te	ontrol applicat €	ol applicat engo 0.00						
Field S	tudies			0	0.00	0.00					
Midtern	Imethod and application steps Loop ci limethod	urrents		1	30.00	30.00					
Others				0	0.00	0.00					
	Lextbooks, Reterences and/or Other Materials: /ork Load		Т	1 emel elektronik Birsen	4.00 Sait Türköz 146.00						
	ork load/ 30 hr		ĮΡ	aul Horowitz, Winfield	Hill	4 87					
	Credit of the Course					5.00					
	EARNING ACTIVITIES		VV	EIGHT		0.00					
Midterm Exam 1				40.00							
Quiz 0				0.00							
	work-project	0	0.00								
Final E	· ,	1	60.00								
Total		2	100.00								
Contrib	oution of Term (Year) Learning Activities s Grade		40.00								
Contrib	ution of Final Exam to Success Grade	)	60.00								
Total			100.00								

Measurement and Evaluation Techniques Used in the Course  Measurement and evaluation is carried out according to the priciples of Bursa uludag University Associate and Undergraduate Education Regulation.																
24 EC	CTS/	WO	RK L	OAD	TAB	LE										
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	2	1	1	3	2	1	1	2	1	0	0	0	0	0	0	0
ÖK2	3	1	1	2	3	3	4	2	3	0	0	0	0	0	0	0
ÖK3	1	2	1	3	3	3	4	4	1	0	0	0	0	0	0	0
			LO: L	earr	ning (	Objec	tive	s P	Q: P	rogra	am Qu	alifica	tions	5		•
Contrib ution Level:	1 \	1 very low 2 low				3 Medium			4 High			5 Very High				