DC CIRCUIT ANALYSIS											
1	Course Title:	DC CIRC	CUIT ANALYSIS								
2	Course Code:	EMEZ10	1								
3	Type of Course:	Compuls	ory								
4	Level of Course:	Short Cy	cle								
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 f	ace								
14	Course Coordinator:	Öğr. Gör	. Dr. UĞUR KILIÇ								
15	Course Lecturers:	Meslek Yüksekokulları yönetim Kurullarının görevlendirdiği öğret elemanları									
16	Contact information of the Course Coordinator:	NÜKET ACARSOY acarsoy@uludag.edu.tr,2942379									
17	Website:										
18	Objective of the Course:	Examination of circuit solution methods and work, power, energy issues in direct current.									
19	Contribution of the Course to Professional Development:	Learning the basic subjects of electricity and electronics by practicing									
20	Learning Outcomes:										
		1	To be able to define direct current and explain its effects								
		2	To understand the relationship between current voltage and Ohm's Law								
		3	power to make the interconversion of Resources								
		4	To understand the areas of use of transformation								
		5	To be able to approach the problems they may face in practice as theoretically and to understand the solution methods								
		6	Capability of evaluating the reactions of capacitors such as condenser, coil								
		7	To be able to comprehend the importance of magnetic field in electricity and basic laws about magnetic field								
		8									
		9									
		10									
21	Course Content:										
	Course Content:										
Week	Theoretical		Practice								
1	Current, Voltage, Resistance, Energ definitions	y, Power	Current, Voltage, Resistance, measurement								
2	Electricity sources		Current, Voltage, Resistance, measurement								
3	Laws of Kirshoph	_	Application of Kirshoph laws								

4	Theve	Thevenin method								Thevenin application for Bridge Circuit										
5	Norton	Norton method								Norton application										
6	Loop c	Loop currents method								op flov	v meth	od appl	ication							
7	Node v	Node voltages method									Application of Node Voltages Method									
8	Repea	Repeating courses and midterm exam																		
9	Super	Superposition method									tage m	ethod a	and sup	erposi	tion app	olication				
10	Maxim	um	n pow	er trar	nsfer t	heoren	n		Ар	Application of maximum power transfer theorem										
11	The responses of the capacitor to the direct current. The energy consumed by the capacitor.									Capacitor charge and discharge application										
12	The responses of the coil to the direct current.Energy consumed by the coil									Capacitor charge and discharge application										
13	Magne	Magnetic field and electromotive force									otive fo	orce ap	plicatior	า						
14	Farada	ay a	and L	enz's	laws.				Ge	eneral	repetiti	on								
22	Textbooks, References and/or Other Materials:									ELECTRONICS 2 A. H. SAÇKAN BASIC ELECTRONICS M. METİN, G. F. ÖZTÜRK J.J.BROPHY ELECTRONIC İ. COŞKUN, E. GÜVEN										
23	Asses	me	nt						_											
TERM L	EARNI	١G	ACTI	VITIES	5		N		WE	WEIGHT										
Midterm Exam									30	.00										
Activites										Numb	er		Dura	ition (hour)	Total Work Load (hour)				
Theoretical 3									10	6400			2.00	2.00 28.00						
Practicals/Labs									ŕ	14					28.00					
Self Stad preperation									Tŕ	14				2.00			28.00			
Homew	vorks								ŕ	1			22.00	22.00			22.00			
₽cotajet ect	S								10	1000.00			0.00	0.00			0.00			
Field S	tudies								. (0.00 0.00						0.00				
Andreso	n exam	s							the	the priciples of Bursa ulugage inversity Associate						<u>aciate</u> ar	nd			
Others									(0					0.00					
Final E	Final Exams										1				22.00					
Total W	Vork Lo	ad												150.00						
Total w	Total work load/ 30 hr													5.00						
ECTS (CTS Credit of the Course										5.00									
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	PC	21	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	0		0	0	3	3	0	3	3	1	0	0	0	0	0	0	0			
ÖK2	0		0	0	2	2	0	2	3	0	0	0	0	0	0	0	0			
ÖK3	0		1	0	2	2	0	2	3	0	0	0	0	0	0	0	0			
ÖK4	0	0 0 3 3 2 0 2 3						3	0	0	0	0	0	0	0	0				

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