	DC	CIRCU							
1	Course Title:	DC CIR	CUIT ANALYSIS						
2	Course Code:	EMEZ101							
3	Type of Course:	Compulsory							
4	Level of Course:	Short Cycle							
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:								
12	Language:	Turkish							
13	Mode of Delivery:	Face to	face						
14	Course Coordinator:	Öğr.Gör	. ERCAN YAVUZ						
15	Course Lecturers:	Öğr.Gör. Ercan Yavuz							
16	Contact information of the Course Coordinator:	ismetguc@uludag.edu.tr, 02242942349, U.Ü. TBMYO Mekatronik Prg. Bşk. Görükle Bursa							
17	Website:								
18	Objective of the Course:	In this course, aimed to gain competencies for to apply the fundamentals of DC and to make all solutions of the DC circuits.							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
	•	1	Being able to use of electric circuit elements in DC circuits						
		2	Being able to calculate of total resistance in DC circuits						
		3	Being able to calculate of current that is flowing in DC circuits.						
		4	Being able to calculate of node voltages in DC circuits.						
		5	Being able to calculate of powers that is consuming in DC circuits.						
		6	Being able to calculate transient–state effect of capacitor in DC circuits.						
		7	Being able to calculate transient–state effect of coil in DC circuits.						
		8	Being able to use DC current circuits in control circuits						
		9							
		10							
21	Course Content:		and Contents						
10/0-1	The exetical	Co	ourse Content:						
	Theoretical Definition of static electric and DC		Practice						
1			Introduction of laboratory Measurement of resistance value and color codes of						
	Serial and parallel resistors	222	resistance						
3	Transform of delta-Y in total resistar calculation		Measurement of resistance value which is connected at the delta-Y shape						
4	Method of mesh currents		Measurement of circulating current in multi-mesh circuits						

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5	-								_	Measurement of node-voltages in multi-mesh circuits										
6	Norton-equivalents of DC circuits									Measurement of current value of Norton-equivalent in multi-mesh circuits										
7	Thevenin-equivalents of DC circuits									Measurement of voltage value of Thevenin -equivalent in multi-mesh circuits										
8	Repeating courses first midterm									Measurement of voltage value of Thevenin -equivalent in multi-mesh circuits										
9									M	Measurement of capacitance value										
10										Measurement of variable voltage of capacitance										
11										Measurement of coil value										
12										Measurement of variable current of coil										
13	Rep	eatin	g cou	rses s	econo	d midte	rm		M	easure	ment c	of variab	le curre	ent of o	coil					
14	Pow	er ec	quilibri	um in	DC c	ircuits			Po	ower m	easure	ement w	vith watt	meter						
22	Textbooks, References and/or Other								Co	ourse n	otes									
23		erials																		
	Assesment LEARNING ACTIVITIES							IUMBE	W	EIGHT										
							F	2												
Midtern	n Exa	am					2		_	50.00										
Quiz							0		0.											
	Home work-proiect 10									Numb	er		Dura	ition (hour)	Total Work Load (hour)				
E ustrip									50	501 <u>4</u> 0 2.00 28.00										
	ticals/Labs									14			2.00	2.00						
Self stu	study and preperation								79	,. 14			3.00		42.00					
Homew			•							14			2.00	2.00						
Measu	rement and Evaluation Techniques Used in the									0			0.00	0.00						
Field S										0			0.00			0.00				
Midtern	h exa	ams			••••				_	2 8.00 16.						16.00				
Others										0 0.00 0.					0.00					
Final E	xams	5								1 10.00						10.00				
Total W	Vork Load													152.00						
Total w	work load/ 30 hr													5.07						
ECTS (S Credit of the Course															5.00				
25				CON	TRIE	BUTIC	N O			LIFIC		COME: NS	S TO I	PROC	GRAM	ME				
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16			
ÖK1	1	2	2	2	4	4	4	3	3	3	5	5	0	0	0	0	0			
ÖK2		1	2	3	3	4	4	2	4	2	4	4	0	0	0	0	0			
ÖK3	:	3	3	4	2	2	2	2	2	2	4	5	0	0	0	0	0			
ÖK4	;	3	3	3	2	2	4	4	4	4	5	5	0	0	0	0	0			
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ÖK5	4	4	2	2	3	4	3	3	4	4	5	0	0	0	0	0
ÖK6	3	3	3	4	4	4	3	2	2	3	3	0	0	0	0	0
ÖK7	4	4	4	3	2	3	4	3	2	5	5	0	0	0	0	0
ÖK8	4	3	2	2	2	4	4	3	4	5	5	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:				2 low		3	Medi	um	4 High			5 Very High				