	DC (CIRCL	JIT ANALYSIS							
1	Course Title:	DC CIRCUIT ANALYSIS								
2	Course Code:	EMEZ10	01							
3	Type of Course:	Compuls	sory							
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	2.00							
9	Practice (hour/week):	0.00	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 Mekatror Prg. Bşk. Görükle Bursa								
17	Website:									
18	Objective of the Course:	In this co	ourse, aimed to gain competencies for to apply the entals 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:									
		Co	ourse Content:							
Week	Theoretical		Practice							
1	Definition of static electric and DC		Introduction of laboratory							
2	Serial and parallel resistors		Measurement of resistance value and color codes of resistance							
3	Transform of delta-Y in total resistan calculation	ce	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							

6	Nort									Measurement of current value of Norton-equivalent in multi-mesh circuits											
7	The									Measurement of voltage value of Thevenin -equivalent in multi-mesh circuits											
8	Rep									Measurement of voltage value of Thevenin -equivalent in multi-mesh circuits											
9		nnsient-state effect of capacitor in DC cuits.									Measurement of capacitance value										
10	Trar circu										Measurement of variable voltage of capacitance										
11	Tran	ansient-state effect of coil in DC circuits									Measurement of coil value										
12	Tran	ansient-state effect of coil in DC circuits									Measurement of variable current of coil										
13	Rep	peating courses second midterm									Measurement of variable current of coil										
14	Pow										easure	ment w	ith watt	meter							
22		xtbooks, References and/or Other terials:								Course notes											
23	Asse	esme	ent																		
TERM L	EARNING ACTIVITIES NUMBE								W	WEIGHT											
Midtern	Midterm Exam 2							5	50.00												
Quiz	Quiz 0								0.	0.00											
Home work-project 0								0.	0,00												
Activites								Numb	er		Duration (hour) Total Wo										
FRESTIE Succes	գրելիկելոր of Term (Year) Learning Activities to Success Grade								5	50,00				2.00			28.00				
Practic	racticals/Labs									14						28.00					
Self stu	elf study and preperation									14						42.00					
Homew										14						28.00 0.00					
Measu	Weasurement and Evaluation Techniques Used in the								е	0			0.00	0.00							
Field S	Field Studies									0						0.00					
Midterm exams									2			8.00			16.00						
Others									0			0.00			0.00						
Final Exams									1			10.00			10.00						
Total Work Load													152.00								
Total work load/ 30 hr															5.07						
ECTS Credit of the Course															5.00						
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																				
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16				
ÖK1		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				

Measurement of node-voltages in multi-mesh circuits

ÖK3

ÖK4

Method of node-voltages

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