

# DC CIRCUIT ANALYSIS

1	Course Title:	DC CIRCUIT 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):	3.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	1	
11	Prerequisites:	None	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Öğr.Gör. NÜKET ACARSOY	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	alperkemal@uludag.edu.tr Öğr.Gör. Alper Kemal YOLGEÇEN	
17	Website:		
18	Objective of the Course:	To make the students learn the operation, process and rules of direct current circuit analysis	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	apply the basic principles about electrical current
		2	make basic circuit solutions
		3	make mixed circuit solutions
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21	Course Content:		
		<b>Course Content:</b>	
Week	Theoretical	Practice	
1	Resistance Ohm's Law		
2	Work, Power and Efficiency		
3	Kirchhoff's Laws		
4	Electrical Circuits		
5	Current and voltage supplies		
6	Circuit Solution Methods		
7	Mesh currents, Nodal analysis		

8	Circuit theories; Thevenin, Norton, Superposition Theorems	
9	Circuit theories; Thevenin, Norton, Superposition Theorems	
10	Circuit theories; Thevenin, Norton, Superposition Theorems	
11	Condensers; Electro Magnetic Induction Magnetism and Electro Magnetic Induction	
12	Transient Analysis in Direct Current	
13	Resistance-inductance, Resistance-condensate time	
14	Resistance-inductance, Resistance-condensate time constant	

22	Textbooks, References and/or Other Materials:	DC CIRCUIT ANALYSIS SEÇKİN YAYINCILIK Hasan Selçuk Selek Yayın Yılı: 2011 DA DEVRE ANALİZİ DERS NOTLARI, Alper Kemal YOLGEÇEN
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23	Assesment
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TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	2	50.00
Quiz	0	0.00
Home work-project	0	0.00

Activites	Number	Duration (hour)	Total Work Load (hour)
Success Grade	2	14.00	28.00
Practicals/Labs	2	14.00	28.00
Self study and preperation	10	0.00	0.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	2	2.00	4.00
Others	0	0.00	0.00
Final Exams	1	1.00	1.00
Total Work Load			61.00
Total work load/ 30 hr			2.03
ECTS Credit of the Course			5.00

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

<b>Contribution Level:</b>	<b>1 very low</b>	<b>2 low</b>	<b>3 Medium</b>	<b>4 High</b>	<b>5 Very High</b>
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