

# 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):	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. 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		

<b>8</b>	Circuit theories; Thevenin, Norton, Superposition Theorems	
<b>9</b>	Circuit theories; Thevenin, Norton, Superposition Theorems	
<b>10</b>	Circuit theories; Thevenin, Norton, Superposition Theorems	
<b>11</b>	Condensers; Electro Magnetic Induction Magnetism and Electro Magnetic Induction	
<b>12</b>	Transient Analysis in Direct Current	
<b>13</b>	Resistance-inductance, Resistance-condensate time	
<b>14</b>	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)
Theoretical	2	14.00	28.00
Practicals/Labs	2	14.00	28.00
Self study and preperation	10.00	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

[illegible]

**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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