

	Teorical	Practice	Laboratory	Preparation Info	Teaching Methods	Course Learning Outcomes
5.Week	*Kirchhoff's Laws, Delta-Star Transformation	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.3
6.Week	*Voltage Source, Current Source, Dependent Source, Source Transformations	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.3
7.Week	*Introduction to Simulation Software and Basic Circuit Simulation	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
8.Week	*Midterm Exam					Ö.Ç.1 Ö.Ç.2 Ö.Ç.3
9.Week	*Mesh Current Method	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.4
10.Week	*Node Voltage Method	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.5
11.Week	*Superposition Method	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.7
12.Week	*Thevenin's Theorem	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.8
13.Week	*Norton's Theorem	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.9
14.Week	*Two-Port Method, Artificial Variable Method, Planar Circuit, Topological Tree, Millman's Theorem	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.2 Ö.Ç.6
15.Week	*Inductor and Capacitor in DC Circuits	*Demonstration of basic elements, working principles, functions in circuits and material selection for various tasks, ability to set up circuits and incorporate them into systems	*Basic Concepts, definition of circuit elements and establishing meaningful systems with circuit elements	*lecture notes, internet videos, circuit installation training	*Explanation, problem solving	Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.1 Ö.Ç.2
16.Week	*Final Exam					Ö.Ç.1 Ö.Ç.2 Ö.Ç.3 Ö.Ç.4 Ö.Ç.5 Ö.Ç.6 Ö.Ç.7 Ö.Ç.8 Ö.Ç.9

Assesment Methods %
1 Ara Sınav : 40.000
3 Final : 60.000

ECTS Workload

Activities	Count	Time(Hour)	Sum of Workload
Vize	1	1.00	1.00
Ödev	1	5.00	5.00
Proje	1	5.00	5.00
Teorik Ders Anlatım	14	3.00	42.00
Final	1	5.00	5.00
Ders Öncesi Bireysel Çalışma	5	1.00	5.00
Ders Sonrası Bireysel Çalışma	10	2.00	20.00
Ara Sınav Hazırlık	1	4.00	4.00
Final Sınavı Hazırlık	1	5.00	5.00
Laboratuvar	14	1.00	14.00
Uygulama / Pratik	14	1.00	14.00
Total :			120.00
Sum of Workload / 30 (Hour) :			4
ECTS :			4.00

Program And OutcomeRelation																				
	P.O. 1	P.O. 2	P.O. 3	P.O. 4	P.O. 5	P.O. 6	P.O. 7	P.O. 8	P.O. 9	P.O. 10	P.O. 11	P.O. 12	P.O. 13	P.O. 14	P.O. 15	P.O. 16	P.O. 17	P.O. 18	P.O. 19	P.O. 20
L.O. 1	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0
L.O. 2	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0
L.O. 3	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
L.O. 4	0	0	0	0	0	0	0	0	0	0	0	5	1	0	0	0	0	0	0	0
L.O. 5	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
L.O. 6	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
L.O. 7	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
L.O. 8	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
L.O. 9	0	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0
Avarage	0	0	0	0	0	0	0	0	0	0	0.67	5.00	1.00	0	0	0	0	0	0	0

BEWARE OF PLAGIARISM! Please pay attention to proper academic citation rules and avoid plagiarism, an unethical and academically fraudulent behavior, when completing reports, assignments, or other academic works , and it is treated with the same disciplinary action as cheating in a classroom setting. It is imperative to refrain from presenting another person s ideas, language, expressions, or any other form of intellectual property as your own. Regardless of quality, your assignments/projects/research should reflect your original work. Perfection is not a requirement, and in case of any uncertainties regarding academic writing guidelines, you may seek clarification from your course instructor.

Engel Durumu/Uyarlama Talebi : Engel durumuna ilişkin herhangi bir uyarlama talebinde bulunmak isteyen öğrenciler, dersin öğretim elemanı ya da Nevşehir Engelli Öğrenci Birimi ile en kısa sürede iletişime geçmelidir.