AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Electrics - Electronics II								
Course Code	AEK110		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	76 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	In this course, it is aimed to develop students' knowledge and skills about basic electric control circuits.								
Course Content	In this course, it is aimed to develop students' knowledge and skills about basic electric laws, using them in DC and AC current circuits and practicing, varieties of electric motors, their structures, connection to the circuits, utilization areas, varieties of control circuits, creating control circuit, characteristics of temperature control elements.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Problem Solving								
Name of Lecturer(s)	Ins. Emine ERTÜRK ŞAHİN								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

Recommended or Required Reading	
1	Elektrik-Elektronik Mühendisliğin Temelleri Cilt 1 Yazar: Uğur Arifoğlu

Week	Weekly Detailed Course Contents	
1	Theoretical	Basic Electrical and Electronics knowledge introduction
2	Theoretical	Unit systems introduction
3	Theoretical	Circuit elements introduction and working principles in the circuit
4	Theoretical	Circuit elements introduction and working principles in the circuit
5	Theoretical	Circuit Analysis methods and solutions to questions about the subject
6	Theoretical	Circuit Analysis methods and solutions to questions about the subject
7	Theoretical	Circuit Analysis methods and solutions to questions about the subject
8	Theoretical	Kirchhoff current law and related questions
9	Theoretical	Kirchhoff current law and related questions
10	Theoretical	Kirchhoff's voltage law and related questions
11	Theoretical	Kirchhoff's voltage law and related questions
12	Theoretical	Thavenin's theorem and solutions to questions about the subject
13	Theoretical	Thavenin's theorem and solutions to questions about the subject
14	Theoretical	Norton's theorem and related question solutions
15	Theoretical	Norton's theorem and related question solutions
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	2	26
Lecture - Practice	13	1	1	26
Assignment	5	0	2	10
Midterm Examination	1	5	2	7
Final Examination	1	5	2	7
			Total Workload (Hours)	76
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	
2	
3	
4	
5	

Programme Outcomes *(Alternative Energy Sources Technology)*	
1	To have knowledge about basic science and technology.
2	To have knowledge about basic energy and alternative energy sources.
3	To have knowledge about basic electrical and electronic laws.
4	To have knowledge about the installation and operation of energy facilities.
5	Learning the methods of recycling of waste and use of energy.
6	To have experience in energy generation and project design.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5
P1	5	5	5	5	5
P3	4	4	4	4	4
P5	3	3	3	3	3
P6	3	3	3	3	3