

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Alternative Current Curcu	its					
Course Code	ELE108	Couse Level		vel Short Cycle (Associate's Degree)			
ECTS Credit 4	Workload 100 (Hours) Theory	3	Practice	1	Laboratory	0
Objectives of the Course In this course, it is aimed to have the students gain the abilities and knowledge like solution and calculations of circuit in AC.							
Course Content Serial and parallel circuits in AC, resonance circuits, 1 and 3 phase systems, power and compensation calculations in AC				nsation			
Work Placement N/A							
Planned Learning Activities and Teaching Methods Explanation (Presentation), Experiment, Demonstration, Problem Solving				olving			
Name of Lecturer(s)	Name of Lecturer(s) Ins. Serkan ARTAN, Ins. Zafer KORKMAZ						

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

Recommended or Required Reading

- 1 Alternative current circuits(Mustafa Yağımlı-Feyzi Akar)
- 2 A.A Circuit analyze(Murat Ceylan)

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Resistor, coil and capacitor in alternating current
2	Theoretical	Resistor, coil and capacitor in alternating current
3	Theoretical	Serial circuits
4	Theoretical	Serial circuits
5	Theoretical	Parallel circuits
6	Theoretical	Parallel circuits
7	Theoretical	Resonance
8	Intermediate Exam	Midterm
9	Theoretical	Power and compensation in AC
10	Theoretical	Power and compensation in AC
11	Theoretical	Power and energy in monophase AC
12	Theoretical	Power and energy in monophase AC
13	Theoretical	Power and energy in triphase AC
14	Theoretical	Power and energy in triphase AC
15	Theoretical	Power and energy in triphase AC
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Lecture - Practice	14	0	1	14
Assignment	4	2	0	8
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				



Learn	ing Outcomes	
1	AC basics	
2	Making circuit solutions in AC,	
3	Making power and energy calculations in AC.	
4	Makes compensation calculations.	
5	Arrange compensation panel.	

1 TI	
1 11	ECHNICAL FOREIGN LANGUAGE
2 B	BASICS OF MECHATRONICS
3 TI	ECHNICAL DRAWING
4 D	DOING BASIC MECHANIC PROSESES
5 C	CHOOSE THE MATERIALS
6 D	DOING MECHANICAL SYSTEM DESIGN
7 S	SET UP A HYDRAULİC OR PNEUMATICSYSTEMS
8 D	DOING COMPUTER AIDED MECHANICAL DESIGN
9 U	JSINGFLEXIBLE PRODUCING SYSTEMS
10 U	JSINGCOMPUTER AIDEDMACHINE TOOLS
11 D	DOING ELECTRICAL AND ELECTRONICAL
12 S	SET UP ELECTRICAL AND ELECTRONICAL CIRCUITS
13 S	SET UP LOGICAL CIRCIUTS
14 D	DOING COMPUTER AIDED ELECTRONICAL CIRCUITSDESİGN
15 S	SET UP ELECTRICAL MOTORS
16 S	SET UP MICROCONTROLLER CIRCIUTS
17 S	SET UP CONTROL SYSTEMS
18 C	COMMUNICATE CONTROL SYSTEMS
19 D	DOING INDUSTRIAL ROBOTIC PROGRAMMINGAND MAINTENANCE
20 W	VRITING COMPUTER PROGRAMME
	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
22 Al	Ability to plan a career in their own profession.

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

	L1	L2	L3	L4	L5
P12	3	1	1	3	2
P14	3	1	1	3	2

