

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Basic Electrics		S								
Course Code		AET104		Couse Level		Short Cycle (Associate's Degree)				
ECTS Credit	3	Workload	75 (Hours)	Theory	/	2	Practice	1	Laboratory	0
Objectives of the Course This course will equip stude and electrical motor connection.				skill	s like settin	ig basic electi	ric circuits, s	setting automatic c	ircuits,	
Course Content		setting ground	ding and reset ntrol, setting a	connec	tions with	, setting a oressuresta	circuit with me at control, doir	chanic switch ng single pha	ating and direct circ ches, setting a circu ased motor connec	uit with
Work Placement N/A										
Planned Learning Activities and Teaching Methods			Explar	ation	(Presenta	tion), Experim	ent, Demons	stration, Individual	Study	
Name of Lecturer(s) Prof.		Prof. Kutalmış	GÜVEN							

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

Recommended or Required Reading

- 1 Doğru Akım Devre Analizi / Murat Ceylan
- 2 Elektrik Şebeke ve Tesisleri / Mahmut Nacar

Week	Weekly Detailed Cour	Weekly Detailed Course Contents					
1	Theoretical	Setting connection of conductors					
2	Theoretical	Using measurement devices					
3	Theoretical	Setting alternating and direct circuits					
4	Theoretical	Setting grounding and reset connections					
5	Theoretical	Setting a circuit with mechanic switches					
6	Theoretical	Setting a circuit with thermostat control					
7	Theoretical	Setting a circuit with pressurestat control					
8	Theoretical	Doing single phased motor connection					
9	Intermediate Exam	Midterm Exam.					
10	Theoretical	Doing single phased motor connection.					
12	Theoretical	identifying the order of the phases					
13	Theoretical	Doing three phased motor connection.					
14	Theoretical	Doing three phased motor connection.					
15	Final Exam	Final Examination					

Quantity	Preparation		Duration	Total Workload	
14		1	2	42	
14		0	1	14	
1		9	1	10	
1		8	1	9	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
	14	14 14 1 1	14 1 1 1 1 4 0 1 1 9 1 1 8 To	14 1 2 14 0 1 1 9 1 1 8 1 Total Workload (Hours)	

Learn	Learning Outcomes					
1	Setting basic electric circuits					
2	Setting basic automatic control circuits					



3	Electrical motor connections	
4	To make fault detection related to installation	
5	Reads electrical installation projects	

Progr	amme Outcomes (Alternative Energy Sources Technology)					
1	Carry out installing work					
2	Do mechanical drawing					
3	Do pipe welding					
4	Do basic electricity works					
5	Do Computer assisted design					
6	Install solar energy hot water preparation system.					
7	Do measurement and calculations practices.					
8	Do basic practices of geothermal energy.					
9	Install control and automation system.					
10	Install domestic water heating system with solar energy.					
11	Generate electricity with solar energy					
12	Generate electricity with wind power					
13	Do geothermal energy practices					
14	Install domestic cooling system					
15	Do heating pump practices					
16	Manage a business					
17	SET UP A WORKPLACE/ BUSINESS (pre-requisite)					
18	OBEY VOCATIONAL ETHICAL VALUES					
19	RESEARCH AND EVALUAOTION/OBSERVATION					
20	SELFIMPROVEMENT WITH USING INFORMATION FACILITIES					
21	Knows the effects of all energy sources on the environment.					
22	Can communicate in a foreign language					
23	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.					
24	Ability to plan a career in their own profession.					
25	To produce solutions by using the laws of physics in the use or design of tools-machines or devices related to the profession.					
26	To provide them with knowledge about substance use and addiction problem and prevention methods.					

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

	L1	L2	L3	L4	L5
P4	5	5	5	5	5

