



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Failre Analysis							
Course Code		ELE156		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		In this course, it is aimed to have the students gain the abilities and knowledge of making malfunction analysis.							
Course Content		Finding malfunction units and components							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Problem Solving					
Name of Lecturer(s)		Ins. Cemal GÖVEN							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	70

### Recommended or Required Reading

1	Lecture notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Isolation of malfunction
2	Theoretical	Isolation of malfunction
3	Theoretical	Finding the defective unit or component
4	Theoretical	Finding the defective unit or component
5	Theoretical	Finding the defective unit or component
6	Theoretical	Finding the defective unit or component
7	Theoretical	Finding the defective unit or component
8	Theoretical	Finding the defective unit or component
9	Theoretical	Malfunction and maintenance chart
10	Theoretical	Malfunction and maintenance chart
11	Theoretical	Catalogue
12	Theoretical	Catalogue
13	Theoretical	Archiving
14	Theoretical	Archiving

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	Removal of the detected malfunctions by making system analysis
2	Creates fault and maintenance cardboard.
3	Finds the defective unit or element.
4	Creates the catalog of the fault.
5	Makes archiving.



**Programme 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 EVALUATION/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
P6	3	3	3	3	5
P7	3	3	4	4	4
P8	3	3	4	4	3
P9	3	3	3	4	3
P10	4	4	3	3	4
P11	4	4	3	3	4
P12	2	4	3	4	4
P13	3	3	3	4	4
P14	2	3	3	4	4

