



AYDIN ADNAN MENDERES UNIVERSITY
SÖKE VOCATIONAL SCHOOL
ELECTRICAL AND ENERGY
ALTERNATIVE ENERGY SOURCES TECHNOLOGY
COURSE INFORMATION FORM

Course Title	Welding Pipe								
Course Code	AET102			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	5	Workload	120 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course	With this course it is aimed that students would acquire the competence to join steel pipes using oxy-acetylene and electric arc welding.								
Course Content	Pressure Regulator Setting, Adjusting Flame Setting, With oxy-acetylene welding doing wireless sewing. With oxy-acetylene welding doing wire sewing. With oxy-acetylene welding centering piece of work. With oxy-acetylene welding joining tins with welding. With oxy-acetylene welding joining steel pipes. With oxy-acetylene welding doing hot bending. Centering with electric arc welding. Preparation to pipe welding with electric arc welding. Centering steel pipes with electric arc welding. Joining tins with electric welding. Joining steel pipes with electric welding. With gas metal arc welding (MIG/MAG) joining tins. With gas metal arc welding joining pipes. Gas-shielded Tungsten (Tig) electric arc welding.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Individual Study								
Name of Lecturer(s)	Cemal GÖVEN								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Lecturer notes
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Week	Weekly Detailed Course Contents	
1	Theoretical	Pressure Regulator Setting
2	Theoretical	Adjusting Flame Setting
3	Theoretical	With oxy-acetylene welding doing wireless sewing
4	Theoretical	With oxy-acetylene welding doing wire sewing
5	Theoretical	With oxy-acetylene welding centering piece of work With oxy-acetylene welding joining tins with welding
6	Theoretical	With oxy-acetylene welding joining steel pipes
7	Theoretical	With oxy-acetylene welding doing hot bending
8	Theoretical	Electric arc welding
9	Theoretical	Centering with electric arc welding
10	Theoretical	Preparation to pipe welding with electric arc welding Centering steel pipes with electric arc welding
11	Theoretical	Joining tins with electric welding
12	Theoretical	Joining steel pipes with electric welding
13	Theoretical	Gas metal arc welding (MIG/MAG) With gas metal arc welding (MIG/MAG) joining tins



14	Theoretical	With gas metal arc welding joining pipes Gas-shielded Tungsten (Tig) electric arc welding
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Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Lecture - Practice	14	0	1	14
Project	7	4	0	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				120
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Producing flames with oxy-acetylene welding
2	Sewing with oxy-acetylene welding
3	Joining pipes with oxy-acetylene welding
4	Producing arc in electric arc welding
5	Joining pipes with electric arc welding
6	Joining pipes with gas metal arc welding

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

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

	L1	L2	L3	L4	L5	L6
P3	5	5	5	5	5	5

