



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

Course Title	Basic Plumbing Systems								
Course Code	AET103			Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	6	Workload	148 (Hours)	Theory	3	Practice	1	Laboratory	0
Objectives of the Course	With this course students will acquire competencies related with tn and pipe work in order to achieve installment on buildings.								
Course Content	Cutting tins, clinching tins, clenching tins, centering the tins, welding the tins, cutting steel pipes, cutting a screw thread on pipes, fastening joint points, installment on surface mounted, installment flush mounted (embedded), cutting pipes, reaming opening muff, counter boring, joining with connector, bending, join with pressure, preparing copper pipe to hard welding, doing hard welding, cutting plastic pipes, joining plastic pipes with fusion welding.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration								
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	Ders notları
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Week	Weekly Detailed Course Contents	
1	Theoretical	Cutting tins Clinching tins
2	Theoretical	Clenching the tins
3	Theoretical	Centering the tins Welding the tins
4	Theoretical	Cutting steel pipes Cutting a screw thread on pipes
5	Theoretical	Fastening joint points
6	Theoretical	Installment on surface mounted
7	Theoretical	Installment flush mounted (embedded),
8	Theoretical	Cutting pipes Reaming
9	Theoretical	Opening muff
10	Theoretical	Counter boring
11	Theoretical	Joining with connector
12	Theoretical	Bending Joining with pressure
13	Theoretical	Preparing copper pipe to hard welding Doing hard welding
14	Theoretical	cutting plastic pipes Joining plastic pipes with fusion welding

#### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Lecture - Practice	14	0	1	14



Assignment	7	4	0	28
Term Project	2	14	0	28
Midterm Examination	1	10	1	11
Final Examination	1	10	1	11
Total Workload (Hours)				148
[Total Workload (Hours) / 25*] = ECTS				6
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	Joining tins
2	Mounting steel pipes
3	Installing steel pipes
4	Mounting copper and aluminum pipes
5	Joining copper pipes with hard welding
6	Mounting plastic pipes

### 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
P1	5	5	5	5	5	5

