AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Plumbing Systems								
Course Code	AET103		Couse 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)	Prof. Kutalmış GÜVEN								

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

Recommended or Required Reading	
1	Ders notları

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 EVALUA0TION/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	L6
P1	5	5	5	5	5	5