AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	System Analysis and Design-I								
Course Code	AET291		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	50 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	In this lesson it is aimed that students acquire knowledge and skills about designing application project, applying and presenting it.								
Course Content	Deciding study subject, presenting gathered information, defining system/product functions and variables, determining necessary materials, preparing system/product specifications or flowchart, making system/product program or calculations, setting up the environment where system/product would work, setting up system/product , testing system/product , presenting outputs of system/product as a report								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Discussion, Individual Study, Problem Solving								
Name of Lecturer(s)	Ins. Baybars DAL								

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

Recommended or Required Reading	
1	Lecturer notes.

Week	Weekly Detailed Course Contents	
1	Theoretical	Deciding study subject
2	Theoretical	presenting gathered information
3	Theoretical	defining system/product functions and variables
4	Theoretical	determining necessary materials
5	Theoretical	determining necessary materials
6	Theoretical	preparing system/product specifications or flowchart
7	Theoretical	Making system/product program or calculations,
8	Theoretical	Making system/product program or calculations,
9	Theoretical	Setting up the environment where system/product would work
10	Theoretical	Setting up system/product
11	Theoretical	Setting up system/product
12	Theoretical	Testing system/product
13	Theoretical	Testing system/product
14	Theoretical	Presenting outputs of system/product as a report

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	Identifying system/product target and content
2	Making detailed research about the subject of system/product

3	Making calculations/writing program about system/product
4	Develop a project related to the system.
5	Designs new projects.

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
P18	4	4	4	4	4
P19	5	5	5	5	5