



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Geothermal Greenhouses							
Course Code		AEK216		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	73 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Benefits of geothermal energy in greenhouse domain.							
Course Content		Geothermal energy, utility areas of geothermal energy, greenhouse, geothermal energy in greenhouse application.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Individual Study					
Name of Lecturer(s)		Assoc. Prof. Hakan Can SÖYLEYİCİ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Alternatif Enerji Kaynakları Yazar: Mustafa Acaroğlu
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Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to geothermal energy
2	Theoretical	Greenhousing
3	Theoretical	Greenhouse classification
4	Theoretical	Factors effecting greenhouse location
5	Theoretical	Greenhouse building and important facts.
6	Theoretical	Factors effecting greenhouse location
7	Theoretical	Greenhouse cooling and heating
8	Theoretical	Greenhouse heating using geothermal energy
9	Theoretical	Geothermal heating projects
10	Theoretical	Radiation, ventilation
11	Theoretical	Drainage, cleaning and soil preparation
12	Theoretical	Watering
13	Theoretical	Greenhouse maintenance
14	Theoretical	Example greenhouses
15	Theoretical	Example greenhouses
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	1	26
Assignment	7	2	1	21
Individual Work	6	1	1	12
Midterm Examination	1	6	1	7
Final Examination	1	6	1	7
Total Workload (Hours)				73
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	
2	



3	
4	
5	

Programme Outcomes (*Alternative Energy Sources Technology*)

1	To have knowledge about basic science and technology.
2	To have knowledge about basic energy and alternative energy sources.
3	To have knowledge about basic electrical and electronic laws.
4	To have knowledge about the installation and operation of energy facilities.
5	Learning the methods of recycling of waste and use of energy.
6	To have experience in energy generation and project design.

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

	L1	L2	L3	L4	L5
P1	4	4	4	4	4
P2	5	5	5	5	5
P3	3	3	3	3	3
P4	5	5	5	5	5
P5	3	3	3	3	3
P6	5	5	5	5	5

