



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Geothermal Fluid and Environment							
Course Code		AEK219		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	72 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		Utility of geothermal energy, environmental impacts, requirements for mitigation of their environmental impacts.							
Course Content		Geothermal energy, harvesting methods, usage techniques, environment, environmental impacts, cost / benefits.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Case Study, Individual Study					
Name of Lecturer(s)		Ins. Gözde ÇETİN							

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	Uses of geothermal energy
3	Theoretical	Geothermal energy sources and technics
4	Theoretical	Introduction to environmental science
5	Theoretical	Environment and human interactions
6	Theoretical	Conservation biology
7	Intermediate Exam	Midterm exam
8	Theoretical	Environmental impact assesment
9	Theoretical	Geothermal and environment interactions
10	Theoretical	Geothermal and environment interactions
11	Theoretical	Geothermal and environment internactions
12	Theoretical	Geothermal and uses in world
13	Theoretical	Geothermal and uses in world
14	Theoretical	Geothermal and uses in world
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	1	26
Assignment	6	1	1	12
Project	5	2	2	20
Midterm Examination	1	6	1	7
Final Examination	1	6	1	7
Total Workload (Hours)				72
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Learns geothermal energy.
2	Learns environment - human interactions.



3	Learns environmental impact assesment.
4	Learns geothermal and its effects to environment.
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	3	3	3	3	3
P2	5	5	5	5	5
P3	3	3	3	3	3
P4	4	4	4	4	4
P5	5	5	5	5	5
P6	4	4	4	4	4

