



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Reservoir Monitoring and Drill Testing							
Course Code		AEK118		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	77 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		Operation of underground water searching process and its characteristics, practices, methods and evaluation of obtained results.							
Course Content		Practice of basic hydrology studies in underground reservoir and drill monitoring activities, determination of resources, evaluation of potentials.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
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 & Practice	Practicing hydrogeology studies
2	Theoretical & Practice	Hydrogeological characteristics of rocks
3	Theoretical & Practice	Investigation into underground water aquifers and their types
4	Theoretical & Practice	Classification of resources and evaluation of their rates
5	Theoretical & Practice	Classification of resources and evaluation of their rates
6	Theoretical & Practice	Exploration of underground water
7	Theoretical & Practice	Studies on usage of underground water
8	Theoretical & Practice	Studies on usage of underground water
9	Theoretical & Practice	Water table maps
10	Theoretical & Practice	Pressure surface maps
11	Theoretical & Practice	Equivalent height plotting
12	Theoretical & Practice	Chemistry of underground water
13	Theoretical & Practice	Plotting and assessing of chemistry analyses
14	Theoretical & Practice	Isotopes in hydrogeology
15	Theoretical & Practice	Isotopes in hydrogeology
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	2	39
Lecture - Practice	13	1	1	26
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
Total Workload (Hours)				77
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Practice of hydrogeology study
2	Operation of underground water



3	Classification of resources
4	Usage of underground water
5	Classification of water resources

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	5	5	5	5	5
P2	4	4	4	4	4
P5	4	4	4	4	4

