AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Alternative Energy and Environment								
Course Code	AEK106		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	3	Workload	70 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Establishing the relationship between alternative energy resources and environment; ensuring students to gain environmental consciousness and using energy economically.								
Course Content	Establishing the relationship between alternative energy resources and environment; ensuring students to gain environmental consciousness and using energy economically.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Case Study, Individual Study								
Name of Lecturer(s)	Ins. Emre IŞIKLI								

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

Recommended or Required Reading	
1	Çevre ve Enerji, Oğuz Özdemir , Mehmet Erdoğan , Naim Uzun , Yasin Eren , Rasim Önder , Ahmet Özsoy , İbrahim Üçgül , Ufuk Elibüyük , Aysel Aydın Kocaeren , M. Yunus Pamukoğlu, Nobel Yayımcılık

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to alternative energy
2	Theoretical	Wind energy and production methods
3	Theoretical	Solar energy and production methods
4	Theoretical	Geothermal energy and production methods
5	Theoretical	Other alternative energy production methods
6	Theoretical	Introduction to environmental science
7	Theoretical	Introduction to environmental science
8	Theoretical	Environmental impact assesment
9	Theoretical	Human - environment interactions
10	Theoretical	Alternative energy sources and environmental impacts
11	Theoretical	Alternative energy sources and environmental impacts
12	Theoretical	Alternative energy sources and environmental impacts
13	Theoretical	Example alternative energy applications
14	Theoretical	Example alternative energy applications
15	Theoretical	Example alternative energy applications
16	Final Exam	Final Exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	1	1	26
Assignment	6	2	1	18
Reading	7	1	1	14
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
			Total Workload (Hours)	70
			[Total Workload (Hours) / 25*] = **ECTS**	3
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Learns alternative energy sources.
2	Learns environment - human interactions.
3	Learns environmental impact assesment.
4	Learns alternative energy sources and their 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
P2	5			5	5
P4	3	5	5	3	3
P5	4	4	4	4	4
P6	3			3	3