

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Bioenergy Technologies		es					
Course Code AEK215		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 3	Workload 78 (He	ours) Theor	y 2	Practice	0	Laboratory	0
Objectives of the Course	Students are expected	d to learn bio	-energy types a	nd biogas.			
Course Content Bio-energy types, biogas, b		gas, biogas p	roduction faciliti	es, their usage	and sustaina	bility.	
Work Placement N/A							
Planned Learning Activities and Teaching Methods			nation (Presenta	ation), Individua	al Study		
Name of Lecturer(s) Assoc. Prof. Hakan Can SÖ			Ci				

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

Week	Weekly Detailed Course Contents				
1	Theoretical	Energy consumption, reserves, conventional and renewable energy			
2	Theoretical	Bioenergy as energy source, bioenergy types, classification			
3	Theoretical	Biomass, biomass raw materials, biogas			
4	Theoretical	Biogas production technics			
5	Theoretical	Biogas production technics			
6	Intermediate Exam	Midterm exam			
7	Theoretical	Biogas production technics.			
8	Theoretical	Purification of biogas			
9	Theoretical	Purification of biogas			
10	Theoretical	Economical and environmental assesment of biogas			
11	Theoretical	Biogas usage			
12	Theoretical	Biogas plants and example usages			
13	Theoretical	Biogas plants and example usages			
14	Theoretical	Biogas policies, marketing and sustainability			
15	Theoretical	Final exam			

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	13	0	2	26
Assignment	4	4	4	32
Project	2	2	2	8
Midterm Examination	1	5	1	6
Final Examination	1	5	1	6
	78			
	3			
*25 hour workload is accepted as 1 ECTS				

Learni	Learning Outcomes				
1					
2					
3					



4	
5	

Progr	ramme 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	3	4	4	3
P2	5	5	5	5	5
P3	4	3	4	4	3
P4	3	5	3	3	5
P5	3	3	3	3	3
P6	3	5	3	3	5

