

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Electric Production With Solar Energy							
Course Code		AEK201		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	55 (Hours)	Theory	2	Practice	1	Laboratory	0
Objectives of the Course		Students are expected to get acquainted with solar energy panels, determining system size and capacity, their assembly and test; as well as gain relevant skills.							
Course Content		exploring asse	embly location nections and t	n, assembly a	djustments	, settin bearin	g system, fix	g photovoltaic serie king PV pannels, s nverters, their con	etting
Work Placement N/A									
Planned Learning Activities and Teaching Method		Methods	Explanation Problem So		tion), Demons	tration, Disc	ussion, Individual	Study,	
Name of Lecture	r(s)								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination		1	60

Recommended or Required Reading

1 Alternatif Enerji Kaynakları Yazar: Mustafa Acaroğlu

Week	Weekly Detailed Cour	Contents					
1	Theoretical	Yük analizini yapmak					
2	Theoretical	Güneş pili tipi ve gücünü belirlemek					
3	Theoretical	Fotovoltaik dizisini oluşturmak					
4	Theoretical	Montaj yerini tespit etmek					
5	Theoretical	Yönlendirme ve eğim açısını belirlemek					
6	Theoretical	Taşıyıcı karkası oluşturmak PV panelleri sabitlemek					
7	Theoretical	PV panellerin elektriksel bağlantılarını ve testlerini gerçekleştirmek					
8	Intermediate Exam	Mid-term exam					
9	Theoretical	Akü sayısını hesaplamak, Şarj regülatör bağlantısı gerçekleştirmek					
10	Theoretical	Akü gruplandırmasını oluşturmak					
11	Theoretical	Evirici kapasitesini belirlemek					
12	Theoretical	Evirici bağlantısını oluşturmak					
13	Theoretical	Şebeke giriş çıkışlarını oluşturmak					
14	Theoretical	Sayaç grubunu tesis etmek					
15	Final Exam	Final exam					

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	13	0	2	26	
Lecture - Practice	13	0	1	13	
Project	2	0	1	2	
Midterm Examination	1	6	1	7	
Final Examination	1	6	1	7	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					



Learn	ing Outcomes	
1		
2		
3		
4		
5		

Programme Outcomes (Alternative Energy Sources Technology)

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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	5	5
P3	3	3	3	3	3
P4	4	4	4	4	4
P5	4	4	4	4	4
P6	3	3	3	3 (3



Course Information Form