

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	ith Wind Energy							
Course Code	AET206		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit 5	Workload	120 <i>(Hours)</i>	Theory	3	Practice	1	Laboratory	0
			at students acquire following competencies; introducing systems generating letermining system capacity, competencies related to mounting and testing					
Course Content Making load analysis, meas height of the turbine, detern system, constructing tower connections and tests of th connection, making battery install counter group.		rbine, detern ucting tower, id tests of the iking battery	hining mount wing, shaft a wind turbing	ing place, c and genera e, calculatir	organizing basi tor connection ng battery num	ic connections s of wind turbi bers, making	and load-bearin ne, making elect charge regulator	ig rical
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Experime	ent, Demonstra	ation	
Name of Lecturer(s) Ins. Baybars DAL								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination		1	40
Final Examination		1	70

Recommended or Required Reading

1 Lecturer notes.

Week	Weekly Detailed Co	ourse Contents					
1	Theoretical	Making load analysis					
2	Theoretical	measuring wind speed and direction					
3	Theoretical	calculating power by identifying suitable height of the turbine					
4	Theoretical	determining mounting place					
5	Theoretical	organizing basic connections and load-bearing system					
6	Theoretical	constructing tower, wing, shaft and generator connections of wind turbine					
7	Theoretical	making electrical connections and tests of the wind turbine					
8	Theoretical	calculating battery numbers					
9	Theoretical	making charge regulator connection					
10	Theoretical	making battery grouping					
11	Theoretical	making inverter connection					
12	Theoretical	making inverter connection					
13	Theoretical	making network inputs and outputs					
14	Theoretical	install counter group					

Workload Calculation

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Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	1	3	56		
Lecture - Practice	14	0	1	14		
Term Project	7	4	0	28		
Midterm Examination	1	10	1	11		
Final Examination	1	10	1	11		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						



			Course mormation Form
Learr	ning Outcomes		
1	Determining wind turbine power		
2	Mounting wind turbine		
3	Mounting batteries		
4	Mounting inverter		
5	Mounting network connections and counter group.		
Prog	ramme Outcomes (Alternative Energy Sources Technol	ogy)	
1	Carry out installing work		
2	Do mechanical drawing		
3	Do pipe welding		

3	Do bibe weiding
4	Do basic electricity works
5	Do Computer assisted design
6	Install solar energy hot water preparation system.
7	Do measurement and calculations practices.
8	Do basic practices of geothermal energy.
9	Install control and automation system.
10	Install domestic water heating system with solar energy.
11	Generate electricity with solar energy
12	Generate electricity with wind power
13	Do geothermal energy practices
14	Install domestic cooling system
15	Do heating pump practices
16	Manage a business
17	SET UP A WORKPLACE/ BUSINESS (pre-requisite)
18	OBEY VOCATIONAL ETHICAL VALUES
19	RESEARCH AND EVALUA0TION/OBSERVATION
20	SELFIMPROVEMENT WITH USING INFORMATION FACILITIES
21	Knows the effects of all energy sources on the environment.
22	Can communicate in a foreign language
23	Ability to use the methods and techniques of career planning and discussing the effects of character traits on career preferences.
24	Ability to plan a career in their own profession.
25	To produce solutions by using the laws of physics in the use or design of tools-machines or devices related to the profession.
26	To provide them with knowledge about substance use and addiction problem and prevention methods.

Contribution of Learning Outcomes to Programme Outcomes 1: Very Low, 2: Low, 3: Medium, 4: High, 5: Very High

	L1	L2	L3	L4	L5
P4	3	3	3	3	3
P12	5	5	5	5	5

