



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Energy Technology							
Course Code		TABİ218		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		Energy resources have been changed as a result of environmental pollution, urbanization and industrial development. In this course will be given information about the applications of solar energy, wind energy, hydro, biomass and geothermal energies.							
Course Content		Explaining the world and Turkey's overall energy and alternative energy potentials by given general information about energy. The basic parameters are defined by the related calculations are shown of solar energy, wind energy, geothermal energy, hydropower and biomass energy. Information about the energies application areas in agriculture.							
Work Placement		Students have to complete their internship and properties within the required thirty work days time. The required rules are describes at the Adnan Menderes University, Sultanhisar Vocational School, Student Internship Instructions.							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Lecturers Lesson Notes
2	Textbook, articles and so on. all such literatures related with lesson.
3	Hepbaşlı, A., 2010 Enerji Verimliliği ve Yönetim Sistemi Yaklaşımlar ve Uygulamalar, Schneider Electric Enerji Verimliliği Serisi: 1 ISBN: 978-9944-5084-6-9 İstanbul.

Week	Weekly Detailed Course Contents	
1	Theoretical	General knowledge of energy
2	Theoretical	Overall energy and alternative energy potential in Turkey and World
3	Theoretical	Solar energy technology and application areas in agriculture
4	Theoretical	Solar energy technology and application areas in agriculture
5	Theoretical	Wind energy technology and application areas in agriculture
6	Theoretical	Wind energy technology and application areas in agriculture
7	Theoretical	Hydraulic energy technology and application areas in agriculture
8	Intermediate Exam	Midterm
9	Theoretical	Hydraulic energy technology and application areas in agriculture
10	Theoretical	Geothermal energy technology and application areas in agriculture
11	Theoretical	Geothermal energy technology and application areas of our region
12	Theoretical	Biomass energy technology and application areas in agriculture
13	Theoretical	Other energy sources
14	Theoretical	Other energy sources
15	Theoretical	Appropriate use of energy systems
16	Final Exam	Final Exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Midterm Examination	1	7	1	8



Final Examination	1	10	1	11
Total Workload (Hours)				75
[Total Workload (Hours) / 25*] = ECTS				3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	Recognizes energy resources.
2	Obtain information on solar energy and application areas.
3	Obtain information on hydraulic energy and application areas
4	Obtain information on wind energy and application areas
5	Obtain information on geothermal energy and application areas.
6	Obtain information on efficient use of energy systems

Programme Outcomes (*Fungiculture*)

1	Having knowledge of morphology, anatomy, cytology, physiology and biochemical structures of mushroom
2	Having knowledge of soil and climate conditions for mushroom cultivation
3	Having knowledge of identification, classification and the use areas of mushroom species
4	Having knowledge of culture and production techniques of mushroom
5	Having knowledge of harvest and conservation of mushroom
6	Having ability to identify and to maintain important diseases and pests of mushroom species
7	Having ability and knowledge of marketing techniques of mushroom products, effectively.
8	Ability to project mushroom built.
9	Having knowledge of Laboratory techniques
10	Having knowledge of mushroom management

