



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Energy Sources							
Course Code		ÇS211		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	2	Workload	50 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To provide information about the energy, is one of the decisive factors economic, cultural and social development of Countries, and the use of energy with the kinds of energy.							
Course Content		Definition and types of energy. Renewable and non-renewable energy sources, and their importance in terms of human health and the environment .							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study					
Name of Lecturer(s)		Lec. Sevil ÖZCAN							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	. Yarman, T. (2009), Enerji Kaynakları, Okan Üniv. Yayınları no. 6
2	Acaroğlu, M. (2007), Alternatif Enerji Kaynakları, Nobel Yayınevi, Ankara.
3	Madra, Ö. (2007), Niçin daha Fazla Bekleyemeyiz: Küresel Isınma ve İklim Krizi, Agorakitaplığı, İstanbul.
4	Denhez, F. (2007), Küresel Isınma Atlası, çeviren: Özgür Adadağ, NTV yayınları, no: 8.
5	Saraçoğlu, N. (2010) Küresel İklim Değişimi, Biyoenerji ve Enerji Ormanlığı, Efil Yayınevi, Ankara.

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of the energy and it's importance for living things.
	Preparation Work	Projection apparatus, slate, supporter books
2	Theoretical	Basic energy resource of the living things on earth, and the energy cycle.
	Preparation Work	Projection apparatus, slate, supporter books
3	Theoretical	Thermodynamic concepts and its laws. Classification of the energy.
	Preparation Work	Projection apparatus, slate, supporter books
4	Theoretical	Energy resources and the electricity energy.
	Preparation Work	Projection apparatus, slate, supporter books
5	Theoretical	Energy problem on the world.
	Preparation Work	Projection apparatus, slate, supporter books
6	Theoretical	Classical energy resources.
	Preparation Work	Projection apparatus, slate, supporter books
7	Theoretical	Nuclear energy
	Preparation Work	Projection apparatus, slate, supporter books
8	Intermediate Exam	Midterm
9	Theoretical	Unconventional energy sources.
	Preparation Work	Projection apparatus, slate, supporter books
10	Theoretical	Solar energy, its technologies and applications.
	Preparation Work	Projection apparatus, slate, supporter books
11	Theoretical	Biomass energy
	Preparation Work	Projection apparatus, slate, supporter books
12	Theoretical	Biogas energy
	Preparation Work	Projection apparatus, slate, supporter books
13	Theoretical	The wind energy and its source
	Preparation Work	Projection apparatus, slate, supporter books
14	Theoretical	Alternative fuels, used in engines.



14	Preparation Work	Projection apparatus, slate, supporter books
15	Theoretical	Boron and energy.
	Preparation Work	Projection apparatus, slate, supporter books

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	11	1	12
Midterm Examination	1	4	1	5
Final Examination	1	4	1	5
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	1. To understand the importance of the energy for living organisms and Human life.
2	2. To learn the basic energy source of the earth and the energy transformation
3	3. To gain knowledge about the different energy types on the earth, and their characteristics
4	4. Coupling renewable energy sources and the importance of them.
5	Explain the positive and negative aspects of different energy sources.

