

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Energy Sources							
Course Code	ÇS211 Co		Level	Short Cycle (Associate's Degree)			
ECTS Credit 2	Workload 50 (Hours)	Theory	, 2	Practice	0	Laboratory	0
Objectives of the Course	ut the er and the	nergy, is one of use of energy v	the decisive faw	ctors econor f energy.	mic, cultural and so	ocial	
Course Content Definition and types of energy. Reterms of human health and the e				n-renewable er	ergy source	es, and their import	tance in
Work Placement N/A							
Planned Learning Activities and Teaching Methods			ation (Presenta	ation), Discussi	on, Case St	udy, Individual Stu	dy
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 Ormancılığı, Efil Yayınevi, Ankara.			

Week	Weekly Detailed Cour	ailed Course Contents					
1	Theoretical	Definition of the energy and it's importance for living things.					
	Preparation Work	ion 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					
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)					
[Total Workload (Hours) / 25*] = ECTS					
25 hour workload is accepted as 1 ECTS					

Learr	ning 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.

Programme Outcomes (Environmental Health)

Explain the positive and negative aspects of different energy sources.

- They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
- They have gained the basic concepts, skills and qualifications in the Environmental health theorical and practical lessons. And then they can establish the connections that are necessary to protect the environment and people's health in the light of these competencies.
- They can use the approaches and the information of basic and applied research in different disciplines. They can follow the innovations and developments in their field, and have self-development competency with the terms of the day.
- They know and apply the analysis methods used in the evaluation of environmental factors (drinking water, waste water treatment, air pollution, meteorological data, land values, food control, radiation measurement, etc.).
- They have a professional and ethical consciousness, and have the ability to recognize the environmental problems and also can formulate a solution to these problems. They apply the gained knowledges and skills faced in real life situations, transfers the knowledge to individuals around, and wins the life-long learning behavior.
- They are able to use their professional knowledge in their lives and behave sensitively toward the local and global environmental problems and effectively uses to the legislation and management tools the necessary for the solution.
- Gained the ability to adapt the changing in a positive way themselves, to understand the core values and cultures of the society which are living. Sensitive to the universal and the social values, interests of the country, have adopted the concept of sustainable development, environmentally conscious, productive, behaves aware of the ethical and professional responsibility.
- Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
- They gain the ecologically-based solving skills the problems and the delays that may arise in interaction with each other of living and nonliving environment. Interests of local and national, and Ecological and historical values of our country, and contribute to the protection and the development of them.
- Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
- Knows the value of energy for life, recognizes the types of energy, and have conscious of the importance, using and dissemination of renewable energy sources.
- 12 Knows the properties of information and communication technologies, and uses them in the process efficiently and professionally.
- They aware of the democracy, rule of law, human rights, the national and universal cultural characteristics, and sensitive towards to the nature, society and people.
- 14 Knows the importance of Ataturk's principles and reforms, make them a way of life.
- 15 Uses effectively the Turkish in speaking and writing.
- Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
- To have the appropriate knowledge of medical sciences at the level of interest, to use specific medical terms and terminology of field

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	5	5	5	5	5
P2	4	4	4	4	5
P3	4	4	4	4	5
P4	3	3	3	3	5
P5	3	3	3	3	5
P6	3	3	3	3	5
P7	3	3	3	3	4
P8	3	3	3	3	4
P9	3	3	3	3	3
P10	4	4	4	4	5
P11	5	5	5	5	5
P12	3	3	3	3	3
P13	3	3	3	3	3
P14	3	3	3	3	3
P15	5	5	5	5	5
P16	5	5	5	5	5

