



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Environmental Chemistry							
Course Code		ÇS075		Couse Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	77 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To provide information about the concepts in environmental chemistry, informing about the analyses for the environment.							
Course Content		Introduction to environmental chemistry, environmental and ecology, organic pollutant , soil pollution, atmospheric chemistry and ozone layer, water pollutant, biodegradation and water contaminants, wastewater, toxic metals and greenhouse gases.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation)					
Name of Lecturer(s)		Lec. Mert SOYSAL							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	Çevre Kimyası- Prof. Dr. Turgut Gündüz
---	--

Week	Weekly Detailed Course Contents	
1	Theoretical	Introduction to environmental chemistry, basic concepts, basic circuits
2	Theoretical	The components of the atmosphere, the chemical and photochemical reactions in the atmosphere
3	Theoretical	Ozone, global warming, greenhouse effect, photochemical smoke and acid rain in the stratosphere
4	Theoretical	Weather and air pollution
5	Theoretical	Determination of air quality and concentration of pollutants
6	Theoretical	Water and water pollution
7	Theoretical	Determination of water quality
8	Theoretical	To criteria of pollution
9	Intermediate Exam	Examination
10	Theoretical	Soil and soil pollution
11	Theoretical	Waste recycling
12	Theoretical	Radioactive substances and reactions
13	Theoretical	Nuclear power stations and the effects of wastes
14	Theoretical	Energy balance and possible sources of energy
15	Theoretical	Toxic substances chemistry

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0.5	2	35
Individual Work	9	0	3	27
Midterm Examination	1	6	1	7
Final Examination	1	7	1	8
Total Workload (Hours)				77
[Total Workload (Hours) / 25*] = ECTS				3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	The area around the surrounding elements and are sensitive to them.
2	To detect the surrounding positive and negative factors and negative factors required taking cautious enables the creation of a healthy environment.



3	All segments of the society informs impose awareness, positive and lasting environmental, behavioral changes.
4	To follow the technological, scientific and professional developments.
5	Have information about security measures

Programme Outcomes (Environmental Health)

1	They have the appropriate level of knowledge about the basic sciences which has an interaction with the environment and the environment itself.
2	They have gained the basic concepts, skills and qualifications in the Environmental health theoretical 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.
3	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.
4	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.).
5	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.
6	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.
7	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.
8	Provides a healthy interact of individual, society and the environment and take responsibility in the necessary situations for the continuity.
9	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.
10	Exhibits the appropriate behaviours for the protection and the development of plants, animals, and inanimate environment, and the especially human health.
11	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.
13	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 Atatürk's principles and reforms, make them a way of life.
15	Uses effectively the Turkish in speaking and writing.
16	Has at least one foreign language ability to be able to follow the knowledge in their profession and to communicate with colleagues.
17	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				
P3	5				
P4	5	5			
P5		5	5		
P8				5	5
P9				5	5

