



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Environmental Toxicology							
Course Code		ÇS209		Course Level		Short Cycle (Associate's Degree)			
ECTS Credit	3	Workload	75 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about environmental pollution and toxicity and to gain basic skills about environmental toxicology							
Course Content		Toxicology,General Concepts, Classification of toxic substances according to Chemical Structure, Effect of metal contaminants, Gas and particulate contaminants in air, The toxic effect of organic solvents, Important toxic substances in used industry.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study					
Name of Lecturer(s)		Ins. Nimet KILIÇ							

Assessment Methods and Criteria

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

Recommended or Required Reading

1	1. Kaya S., Piriñçi İ., Bilgili A. Çevre Bilimi ve Çevre Toksikolojisi; Medisan Yayınevi, 1998
2	2. Çepel N., Ekolojik sorunlar ve Çözümleri; Tubitak Popüler Bilim Kitapları, 2002

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and History of toxicology
	Preparation Work	Projection apparatus, slate, supporter books
2	Theoretical	Toxicology, General Concepts,
	Preparation Work	Projection apparatus, slate, supporter books
3	Theoretical	Classification of toxic substances according to Chemical Structure
	Preparation Work	Projection apparatus, slate, supporter books
4	Theoretical	The ROUTE of toxic substances to live organisms
	Preparation Work	Projection apparatus, slate, supporter books
5	Theoretical	Assesment of toxic impact
	Preparation Work	Projection apparatus, slate, supporter books
6	Theoretical	Mutagen and Teratogen substances, chemical karsinogens
	Preparation Work	Projection apparatus, slate, supporter books
7	Theoretical	Chemical substances in the surrounding abiotic and contaminants
	Preparation Work	Projection apparatus, slate, supporter books
8	Intermediate Exam	Midterm
9	Theoretical	Effect of metal contaminants
	Preparation Work	Projection apparatus, slate, supporter books
10	Theoretical	Gas and particulate contaminants in air
	Preparation Work	Projection apparatus, slate, supporter books
11	Theoretical	The toxic effect of organic solvents
	Preparation Work	Projection apparatus, slate, supporter books
12	Theoretical	Pesticides and soil pollutants
	Preparation Work	Projection apparatus, slate, supporter books
13	Theoretical	Behavior of Pesticides in the surrounding of Biotic and abiotic
	Preparation Work	Projection apparatus, slate, supporter books
14	Theoretical	Radiation and Toxicology of radioactive isotopes
	Preparation Work	Projection apparatus, slate, supporter books



15	Theoretical	Important toxic substances in used industry
	Preparation Work	Projection apparatus, slate, supporter books

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	7	2	1	21
Reading	1	0	8	8
Midterm Examination	1	6	1	7
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	1. Define Venom and poison, the active ingredient and the sources of lead poisoning, diagnostic and therapeutic approaches comments.
2	2. Define toxic Substances to explain the issue of ways to access the live organism.
3	3. Define Toxicmode of action
4	4. Recognize the effects of metallic pollutants.
5	5. Recognize the effects of gaspollutants in the air.
6	6. Recognize the effects of dust in theair pollutants.
7	7. Recognizes the toxic effects of organic solvents.
8	8. List important issue of toxic substances used in industry reviews.

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	L6	L7	L8
P1	4	4	4	4	4	4	4	4
P2	4	4	4	4	4	4	4	4
P3	4	4	4	4	4	4	4	4
P5	4	4	4	4	4	4	4	4
P6	4	4	4	4	4	4	4	4
P8	5	5	5	5	5	5	5	5
P10	4	4	4	4	4	4	4	4
P13	4	4	4	4	4	4	4	4

