

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Environmenta	I Toxicology							
Course Code		VFT634		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	2	Workload	46 (Hours)	Theory		2	Practice	0	Laboratory	0
Objectives of the Course		To teach the theory of approaches to environmental protection, ecology, environmental pollutants and environmental procedures laws.								
Course Content		Air, soul, water and food pollutants, industry originated pollutant compounds are examined								
Work Placement		N/A								
Planned Learning Activities		and Teaching Methods F		Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					dy,	
Name of Lecturer(s)										

Assessment Methods and Criteria

Method	Quantity	Percentage	(%)
Midterm Examination	1	30	
Final Examination	1	70	

Recommended or Required Reading

Newman MC- Ecotoxicology: a comprehensive treatment. CRC Press
Hughes WW- Essentials of environmental toxicology: The Effects of Environmentally Hazardous Substances on Human Health.
Yu MH- Environmental toxicology: biological and health effects of pollutants. CRC Press

Week	Weekly Detailed Court	ourse Contents						
1	Theoretical	Ecology, ecological relations and scope of ecology						
2	Theoretical	Ecosystems, food chain and role of ecosystem						
3	Theoretical	Role of ecosystem: substance loop						
4	Theoretical	Role of ecosystem: community ecology						
5	Theoretical	Environmental toxicology and environmental pollution						
6	Theoretical	Importance of air pollution						
7	Theoretical	Importance of water system pollution						
8	Theoretical	(Midterm exam) Importance of ground pollution						
9	Theoretical	Importance of water and ground pollution concerning ecology						
10	Theoretical	Pollutants of water and ground: pesticides						
11	Theoretical	New approaches to protect the environment						
12	Theoretical	Environmental law in Turkey						
13	Theoretical	Food contamination						
14	Theoretical	Discussion						
15	Final Exam	Final exam						

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	1	2	42	
Midterm Examination	1	1	1	2	
Final Examination	1	1	1	2	
	46				
	2				
*25 hour workload is accepted as 1 ECTS					

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Learning Outcomes

- To learn the responsibilities of medicine concerning environmental issues.
- To learn the environmental problems and solutions



1

2

3	To learn the professional contributions to environmental health				
4	To learn the environmental policy and laws				
5	To give lectures and/or presentations and discuss with professionals in the area.				

Programme Outcomes (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)

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1	Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
2	To be equipped with the knowledge to develop original ideas about necessary issues in the field by using of both graduate and expertise levels knowledge, to be able to develop original definitions, products and diagnostic procedures, etc. via deepening and questioning these knowledge.
3	Develops and uses strategies in his/her field of expertise in PhD Program of Pharmacology and Toxicology
4	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose.
5	Gains expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
6	Gains expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
7	Can offer training to technical staff who will work in pharmacology and toxicology laboratory
8	Reach to competence to prepare courses at the undergraduate level
9	Determines and uses laboratory equipment and consumables in a pharmacology and toxicology laboratory.
10	To be able to plan an interdisciplinary project and build team for the known or new defined problems and to manage and complete such a project when necessary.
11	To share his/her knowledge in the field with others by attending at field-related or other congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions, etc., and to contribute to the solution in the team by establishing relations with the experts in different fields.
12	To contribute the scientific knowledge in the field via publications in national and international peer-reviewed scientific journals.
13	Takes roles in vocational organizations and institution.
14	Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

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	4	5	5	3	
P2	5	4	5		
P4			4		
P5	4	4	5		
P8					4
P11					4
P13	3	4	4	5	5

