

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Basic Principles in Toxicology- III (Mode of Action of Poisons and Factors Effecting of Poisoning))		
Course Code VFT680		Couse L	.evel	Third Cycle (Doctorate Degree)			
ECTS Credit 6	Workload 150 (H	ours) Theory	2	Practice	0	Laboratory	0
Objectives of the Course To give information about intoxication with poisons that affect the live organism, forms of influence factor (organism, environment, material, etc.).						ce factors	
Course Content Types of poisoning, intoxicat examined.			cts and toxicity	of poisons in t	he forms of th	ne factors affectin	g are
Work Placement N/A							
Planned Learning Activities and Teaching Methods			tion (Presenta	tion), Discussio	on, Individual	Study, Problem S	Solving
Name of Lecturer(s)							

Assessment Methods and Criteria						
Method	Quantity	Percentage (%)				
Midterm Examination	1	40				
Final Examination	1	60				

Reco	mmended or Required Reading
1	Principles and Methods of Toxicology, A. Wallace HAYES, Edward BROTHERS; Ann Arbor Press, 2001.
2	Modern Toxicology, Ernest HODGSON, Patricia E. LEVI; Elsevier, London, 1987.
3	Handbook of Experimental Pharmacology – 199; Comparative and Veterinary Pharmacology, Fiona CUNNINGHAM, Jonathan ELLIOTT, Peter LEES (Editors); Springer Press, 2009.
4	Plant Phenolics and Human Health: Biochemistry, Nutrition, Pharmacology, Cesar G FRAGA (Editor); A John Willey & Sons Inc. Publication, 2010.
5	Principles of Biochemical Toxicology, 3rd Edition, John TIMBRELL; Taylor & Francis Group Press, London, 2000

Week	Weekly Detailed Course Contents					
1	Theoretical	Types and classification of poison				
2	Theoretical	Physical and chemical effects				
3	Theoretical	Poisons that affect the receptor level				
4	Theoretical	Poisons, which act as anti-metabolite				
5	Theoretical	Poisons that affect the level of energy metabolism				
6	Theoretical	Effect on protein synthesis in those				
7	Theoretical	Poisons that direct tissue damage				
8	Intermediate Exam	Midterm exam				
9	Theoretical	Poisons that cause genetic damage				
10	Theoretical	Factors affecting intoxication				
11	Theoretical	Poison-related factors				
12	Theoretical	Poison-related factors				
13	Theoretical	Organism-related factors				
14	Theoretical	Organism-related factors				
15	Theoretical	Article review and discussion				
16	Final Exam	Final				

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Assignment	16	1	1	32
Midterm Examination	1	10	2	12



Final Examination	1		20	2	22	
	Total Workload (Hours) 150					
[Total Workload (Hours) / 25*] = ECTS 6						
*25 hour workload is accepted as 1 ECTS						

Learning Outcomes

- 1 Learns the posions concept and mechanisms of action of poisons
- 2 Know the factors affecting toxicity and poisoning
- 3 To learn knowledge and propose suggestions on the area
- 4 To find out and use resources about the profession in the area.
- 5 To give lectures and/or presentations and discuss with professionals in the area.

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

- Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
- 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.
- 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
- 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.
- 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.
- 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.
- Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
- 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	4			
P2	5	5		5	
P3	3	3	5	4	
P4	4	4	4		
P5	5				
P6	5				
P7	4				
P8	4				5
P9	4				
P10	5	5			
P11			5		5
P12				5	
P13	4	4			
P14			4		4

