

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	e Title Basic Principles in Toxicology - II (Toxicokinetics, Relationship Between Their Dose and Effect)							
Course Code	VFT626		Couse Leve	I	Third Cycle (Doctorate Degree)			
ECTS Credit 6	Workload	147 (Hours)	Theory 2		Practice	0	Laboratory	0
Objectives of the Course  To give information about toxicokinetics in toxicology and related access roads to the body of poisons, the absorption, distribution-accumulation, biotransformation, disposal, and the importance of the kinetic values.								
Course Content Toxicokinetics in toxicology accumulation, biotransform								
Work Placement N/A								
Planned Learning Activities and Teaching Methods			Explanation	(Presenta	tion), Discussi	on, Individua	al Study, Problem	Solving
Name of Lecturer(s) Prof. Murat BOYACIOĞLU								

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

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

Week	Weekly Detailed Cour	se Contents					
1	Theoretical	Poison-drug-related physiological substance					
2	Theoretical	Toxicokinetics					
3	Theoretical	Absorption and transport of poisons					
4	Theoretical	The distribution of toxins in the organism					
5	Theoretical	Biotransformation of toxins					
6	Theoretical	Disposal of poisons					
7	Theoretical	Disposal of poisons					
8	Intermediate Exam	Midterm exam					
9	Theoretical	Dose-density relation					
10	Theoretical	Repeated exposure to doses of					
11	Theoretical	Dose-effect relationship					
12	Theoretical	Acute poisonings					
13	Theoretical	Subacute poisoning					
14	Theoretical	Chronic poisoning					
15	Theoretical	Article review and discussion					

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Assignment	5	5	2	35
Midterm Examination	1	12	2	14



Final Examination	1		12	2	14
	Total Workload (Hours) 147				
[Total Workload (Hours) / 25*] = <b>ECTS</b> 6				6	
*25 hour workload is accepted as 1 ECTS					

Learn	ning Outcomes
1	To obtain information on toxicokinetics.
2	To obtain information on dose-effect relationship poisons density.
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.

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Prog	ramme Outcomes (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)
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.

To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable

## Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

Knows and protects rights of ideas and industrial property (patent right)

	L1	L2	L3	L4	L5
P1	4	4			
P2	5	5		4	
P3	3	3	4	5	
P4	4	4	5		
P8					4
P10	5	5			
P11			4		5
P12				4	
P13	4	4			
P14			4		5



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