

## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Calculation of Pharmacokinetics Parameters							
Course Code	VFT554		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 4	Workload	99 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course Pharmacokinetics moddeleme, kinetic parameters and factors affecting them with the WinNonlin softv program utilized in the calculation of these parameters provide information about.					n software			
Course Content  Behavior of drugs in the bemodeling, pharmacokinetic changes in these paramet and the effects of measure package			parameters (A	AUC, Tma es, race, o	x, T1 / 2, OKS disease, geneti	, CI, Vd), the	factors that lead onment, etc.). dru	to g efficacy
Work Placement N/A								
Planned Learning Activities and Teaching Methods		Explanation Individual St			ent, Demons	tration, Discussio	n,	
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	Veterinary Pharmacology and Therapeutics, 8th Edition, Jim E. Riviere (Editor), Mark G. Papich (Editor), 2009.
2	Modern Pharmacology, 6th Edition, Lippincott Williams and Wilkins, 2004 (Ed. C.R. Craig and R.E. Stitzel)
3	Basic and Clinical Pharmacology, 9th Edition, McGraw-Hill, New York, 2004 (Ed. B. Katzung)
4	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)
5	Lippincott's Illustrated Reviews: Pharmacology, 3rd Edition, Lippincott Williams and Wilkins, 2005 (Eds. Howard, Mycek, Harvey & Champe)
6	The Veterinary Formulary edited by Yolande Bishop. London Pharmaceutical Press in association with the British Veterinary Association 2001.
7	Pharmacology. Franklin A. Ahrens. Baltimore, Md. London Williams & Wilkins 1996.
8	The physiological basis of veterinary clinical pharmacology J. Desmond Baggot. Oxford Blackwell Science 2001.
9	Veterinary pharmaclgy and therapeutics edited by H. Richard Adams. Ames, Iwa Iwa State University Press 2001.

Week	Weekly Detailed Course Contents					
1	Theoretical	Definition and importance of pharmacokinetics				
	Practice	Pharmacokinetic study planning				
2	Theoretical	Factors affecting the pharmacokinetics of				
	Practice	Pharmacokinetic studies materials required				
3	Theoretical	Pharmacokinetic study plan				
	Practice	Sample collection and storage				
4	Theoretical	Pharmacokinetic studies points to be considered				
	Practice	pharmacokinetic studies				
5	Theoretical	pharmacokinetic parameters				
	Practice Chromatographic analysis of pharmacokinetic studies					
6	Theoretical	After application of intravenous drug FK				
	Practice	Creating plasma concentration-time curve				
7	Theoretical	Other routes of drug administration and post-FK				
	Practice	WinNonlin software package (Application)				
8	Intermediate Exam	Mid-term exam				
9	Theoretical	Modeling				
	Practice	WinNonlin software package (Application)				



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10	Theoretical	Compartmentalized according to the method parameters, the calculation of FK
	Practice	WinNonlin software package (Application)
11	Theoretical	Single-and dual-chamber according to the method the calculation of kinetic parameters
	Practice	WinNonlin software package (Application)
12	Theoretical	Package program WinNonlin
	Practice	WinNonlin software package (Application)
13	Theoretical	Package program WinNonlin
	Practice	WinNonlin software package (Application)
14	Theoretical	Package program WinNonlin
	Practice	WinNonlin software package (Application)
15	Theoretical	discussion
	Practice	discussion
16	Final Exam	Final

Workload Calculation						
Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	2	1	42		
Lecture - Practice	15	1	2	45		
Midterm Examination	1	3	2	5		
Final Examination	1	5	2	7		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = <b>ECTS</b>						
*25 hour workload is accepted as 1 ECTS						

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- 1 Definition and importance of pharmacokinetics
- 2 Pharmacokinetic study planning
- 3 pharmacokinetic modeling
- 4 Pharmacokinetic parameters and factors affecting them
- 5 Calculation of pharmacokinetic parameters

## Programme Outcomes (Veterinary Pharmacology and Toxicology Master's Without Thesis)

- 1 to be able to comprehend expert knowledge on field of pharmacology and toxicology in veterinary medicine
- 2 to be able to define expert knowledge on interdisciplinary interaction in pharmacology and toxicology
- to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
- to be able to integrate and interpret information in the area of pharmacology and toxicology with information in different fields and, if the need arises, provides scientific information and solutions to solve problems.
- 5 to be able to develop and use strategies in his/her field of expertise in Master's Program of Pharmacology and Toxicolog
- 6 to be able to comprehend methods of obtained and submitted scientific knowledge
- to be able to analyse current information related to his/her field of expertise (scientific information, procedures etc.) and use them when necessary.
- 8 to be able to apply technological tools in social relationships of vocational and professional environment
- to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
- to be able to comprehend expert knowledge on the function and basic pharmacological features of pharmacology and subbranches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
- to be able to identify expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning
- 12 to be able to define and use laboratory equipment in a pharmacology and toxicology laboratory.

## 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	3	4	5	3
P4	5		5		
P5	3	3	3	3	



P9 5 4 4 5 5

