



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Basic Principles in Pharmacology (Pharmacokinetic, Pharmacodynamics)							
Course Code		VFT501		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	6	Workload	144 ( <i>Hours</i> )	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		This course examines the effect of drugs on drug knowledge or science of living systems to introduce the science of pharmacology, drugs, physical and chemical properties and changes in the ways to obtain them in living organisms effect modes used for different purposes for the undesirable effects of options, and the organisms are introduced briefly, the pharmacokinetic part of the after the body and pharmacodynamics of drugs to provide information about changes with time.							
Course Content		Definition and history of pharmacology, dosage information, pharmacokinetic and pharmacodynamic							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study, Problem Solving					
Name of Lecturer(s)		Prof. Ferda AKAR							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended 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 pharmacology and therapeutics edited by H. Richard Adams. Ames, Iowa Iowa State University Press 2001.

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and history of pharmacology
2	Theoretical	Drug-poison the relationship
3	Theoretical	The pharmaceutical sciences
4	Theoretical	Dose information
5	Theoretical	Pharmacokinetics (absorption)
6	Theoretical	Pharmacokinetics (Distribution)
7	Theoretical	Pharmacokinetics (Metabolism)
8	Intermediate Exam	Mid-term exam
9	Theoretical	Pharmacokinetics (Breakthrough)
10	Theoretical	Forms of drug action
11	Theoretical	Dose-density relation
12	Theoretical	Dose-effect relationship
13	Theoretical	Routes of administration
14	Theoretical	Drug-drug interactions
15	Theoretical	Factors modifying the effect of drugs
16	Final Exam	Final



**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Quiz	4	8	1	36
Midterm Examination	1	12	2	14
Final Examination	1	8	2	10
Total Workload (Hours)				144
[Total Workload (Hours) / 25*] = ECTS				6

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	Knowledge of the science of pharmacology and sub-branches of science
2	Grasp the relationship between the drug and poison
3	Pharmacokinetics of drugs and medicines to be informed about the changes suffered by the body
4	Effects of the drugs, the dose-intensity and dose-effect relationship between the grasp
5	A knowledge of Factors modifying the effect of the drugs

**Programme Outcomes (Veterinary Pharmacology and Toxicology Master)**

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
3	to be able to formulate ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education
4	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 Toxicology
6	to be able to comprehend methods of obtained and submitted scientific knowledge
7	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.
9	to be able to review, evaluate and interpret any data (field observations, available scientific information etc.) towards a specific purpose.
10	to be able to comprehend 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.
11	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	4			
P5				4	
P7			4	4	4
P8				5	5
P12	5	5	5	5	5

