



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Pharmacological Forms of Drugs and Relation of Their Structure and Effect							
Course Code		VFT522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	96 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The purpose of this course, the solid dosage forms, semi-solid and liquid dosage forms dosage forms of drugs are introduced and galenical preparations and have knowledge about the relationship between structures and the effects they produ							
Course Content		The purpose of this course, the solid dosage forms, semi-solid and liquid dosage forms dosage forms are introduced and the galenic preparations, pharmaceutical industry, pharmaceutical processing, dose-intensity, and structure-activity relationship of drugs, drug interactions.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Project Based Study, Individual Study					
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 pharmaclgy and therapeutics edited by H. Richard Adams. Ames, Iwa Iwa State University Press 2001.

Week	Weekly Detailed Course Contents	
1	Theoretical	The pharmaceutical preparation forms
2	Theoretical	The solid pharmaceutical forms
3	Theoretical	Liquid drug forms
4	Theoretical	Semi-solid pharmaceutical forms
5	Theoretical	Pharmaceutical drug preparation techniques
6	Theoretical	The effects of the effects of pharmaceutical drugs pharmaceutical forms
7	Theoretical	Dose-effect relationship
8	Intermediate Exam	Mid-term exam
9	Theoretical	Dose-intensity effect
10	Theoretical	Structure-activity relationship
11	Theoretical	Drug interactions
12	Theoretical	Agonist-antagonist
13	Theoretical	isomerism
14	Theoretical	Geometric and optical isomerism
15	Theoretical	discussion
16	Final Exam	Final



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Midterm Examination	1	4	2	6
Final Examination	1	4	2	6
Total Workload (Hours)				96
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Knowledge of Forms of pharmaceutical drugs
2	Create structures and pharmacological effects of the drugs to be informed about the relationship between
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 (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			
P3			5		5
P4			4		4
P5					5
P6				5	5
P7				4	
P8					4
P9			5	5	5
P12	5	5			

