



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Antifungal and Antiviral Drugs							
Course Code		VFT559		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	52 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To teach the use of antifungal and antiviral drugs, to teach application these drugs, to teach the mechanism of action of these drugs							
Course Content		Classification, mode of actions, effects and adverse effects, related structure and effects, clinical usage and application of antifungal and antiviral drugs are examined.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

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.

Week	Weekly Detailed Course Contents	
1	Theoretical	Systemic and local fungal diseases
2	Theoretical	Classification of antifungal drugs
3	Theoretical	Antifungal drugs (iodine, zinc and copper compounds)
4	Theoretical	Antifungal drugs (organic acids, dyes and phenols)
5	Theoretical	Antifungal drugs (nitrofurans, azole and triazole compounds)
6	Theoretical	Antifungal drugs (polien antibiotics, allamin derivatives)
7	Intermediate Exam	Midterm exam
8	Theoretical	The structure and classification of viruses
9	Theoretical	Efficiency of antiviral drugs
10	Theoretical	Resistance to antiviral drugs
11	Theoretical	Use of antiviral drugs
12	Theoretical	Classification of antiviral drugs
13	Theoretical	Antiviral drugs (pyrimidine and purine analogues)
14	Theoretical	Antiviral drugs (interferons and other drugs)
15	Theoretical	Discussion
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Quiz	1	2	2	4



Final Examination	1	4	2	6
Total Workload (Hours)				52
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To learn the use of antifungal drugs and the application methods of their drugs
2	To learn the mechanism of action of antifungal drugs
3	To learn the classification of antifungal drugs
4	To learn the use of antiviral drugs and the application methods of their drugs
5	To learn the mechanism of action of antiviral drugs
6	To learn the classification of antiviral 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	L6
P1	5	4	3	5	4	3
P3	5			5		
P4	4	5	3	4	5	3
P10	5	5	5	5	5	5

