



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Anthelmintic Drugs							
Course Code		VFT647		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The purpose of this course, anthelmintic treatment, broad and narrow-spectrum anthelmintic drugs and to provide information about drugs that are effective against protozoan parasites.							
Course Content		Anthelmintic treatment history and anthelmintic treatment, broad and narrow-spectrum anthelmintic drugs, drug resistance, trematodes, cestodes and nematodes are effective against drugs and their pharmacology and the use of anthelmintic treatment and to delay the development of resistance to be considered.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
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	Veterinary pharmacolgy and therapeutics edited by H. Richard Adams. Ames, Iwa Iwa State University Press 2001.
3	The Veterinary Formulary edited by Yolande Bishop. London Pharmaceutical Press in association with the British Veterinary Association 2001.
4	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and history of anthelmintic treatment discussion
2	Theoretical	Anthelmintic efficacy testing and classification of anthelmintic drugs
3	Theoretical	Anthelmintics resistance
4	Theoretical	Effect mechanisms of anthelmintics
5	Theoretical	Anthelmintics ways to use
6	Theoretical	Drugs used against trematode-1
7	Theoretical	Drugs used against trematode-2
8	Intermediate Exam	Midterm exam
9	Theoretical	Drugs used against cestodlara
10	Theoretical	The drugs used against nematodes-1
11	Theoretical	The drugs used against nematodes-2
12	Theoretical	The drugs used against nematodes-3
13	Theoretical	The drugs used against nematodes-4
14	Theoretical	Anthelmintic treatment and to delay the development of resistance to be considered
15	Theoretical	Discussion
16	Final Exam	Final



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	3	10	1	33
Individual Work	2	13	1	28
Midterm Examination	1	14	2	16
Final Examination	1	16	1	17
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	The history and definition knowledge of Anthelmintic treatment
2	Anthelmintics and their wide and narrow-spectrum anthelmintic resistance mechanisms to learn and be informed.
3	Trematodes, cestodes and nematodes which are effective against the use of drugs and their pharmacology and have knowledge.
4	To delay the development of resistance to anthelmintic treatment and to be informed about matters to be considered
5	To give lectures and/or presentations and discuss with professionals in the area.

Programme 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.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

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	5	5		5	
P4	3			4	
P5			5	5	
P6			4	4	
P7		4	4	4	
P8					4
P10			4	4	
P11			4	4	5



P13			4	4	
P14			4	4	5

