



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Growth Prometers							
Course Code		VFT538		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	47 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		To learn growth promoters like hormones, hormone like compounds, chemotherapeutics, minerals, vitamins, and modulators of rumen digestion and some of neuroleptics.							
Course Content		Hormones, hormone like compounds, chemotherapeutics, minerals, vitamins, and modulators of rumen digestion and some of neuroleptics are examined.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, 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	Adams H.R. (1995). Veterinary Pharmacology and Therapeutics, Iowa University Press
2	Kaya S. (2007). Kaya S, editor. Veteriner Farmakoloji. 4 ed. Ankara: Medisan Yayınevi.
3	2.Toutain P-L, Ferran A, Bousquet-Mélou A. (2010). Species Differences in Pharmacokinetics and Pharmacodynamics. Comparative and Veterinary Pharmacology. In: Cunningham F, Elliott J, Lees P, editors: Springer Berlin Heidelberg.
4	3.Andrews AH.(2004). Bovine Medicine and Husbandry of Cattle. Oxford: Blackwell Science, 2004:1035-44.
5	Kandur R. (2008) Türk Vademecum, Veteriner İlaç Rehberi, Cansız Hayal Kitabevi, İstanbul.
6	Andrews AH.(2004). Bovine Medicine and Husbandry of Cattle. Oxford: Blackwell Science, 2004:1035-44.

Week	Weekly Detailed Course Contents	
1	Theoretical	Growth promoters
2	Theoretical	Growth promoters
	Practice	Aim of drugs and drug like compounds
3	Theoretical	Growth promoters
	Practice	Antibiotics
4	Theoretical	Growth promoters
	Practice	Harmful effects of antibiotic usage
5	Theoretical	Growth promoters
	Practice	Anabolic substances
6	Theoretical	Growth promoters
	Practice	Anabolic substances: application types
7	Practice	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Growth promoters
	Practice	Anabolic substances: mode of action
9	Theoretical	Growth promoters
	Practice	Anabolic substances: usage
10	Theoretical	Growth promoters
	Practice	Anabolic substances: safety and side effects
11	Theoretical	Growth promoters
	Practice	Anabolic substances: eustrogenic and androgenic anabolisants
12	Theoretical	Growth promoters
	Practice	Anabolic substances: eustradiol 17 beta, testosterone, progesterone, trenbolone and zeranol
13	Theoretical	Growth promoters



13	Practice	Anabolic substances: stilbene derivatives, growth hormone and receptor stimulants
14	Theoretical	Growth promoters
	Practice	Anabolic substances: vitamins, minerals and other substances
15	Theoretical	Discussion
	Practice	General assessment
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Midterm Examination	1	10	1	11
Final Examination	1	7	1	8
Total Workload (Hours)				47
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To learn the effects and mode of action of growth promoters
2	Usage of growth promoters
3	To inform about the side and harmful effects of growth promoters
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'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
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	5	5	4		
P2	4	4	4		
P3	3	3	4		5
P4	3	4	4		4
P5	4	4	4		5
P6	4	4	4	5	5
P7	3	3	4	4	
P8	2	3	3		4
P9	4	4	3	5	5
P10	5	5	5		
P11	2	4	4		



P12	1	1	1		
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