AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Applications and Usage of Drugs in Poultry						
Course Code	VFT544		Couse Level	Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	94 *(Hours)*	Theory	1	Practice	2	Laboratory	0

Objectives of the Course	To be informed about gastrointestinal physiology and the importance of poultry, the general rules for drug use in poultry, poultry pharmacokinetics of drugs, drug elimination, drug application, with the importance of vaccination and the major drug groups used in poultry (antibacterial, antiparasitic, feed additives and growth promoters, vitamins and mineral substances, antiseptics and disinfectants, antifungals, and vaccines) and the properties and uses.
Course Content	Gastrointestinal physiology and the importance of poultry, the general rules for drug use in poultry, poultry pharmacokinetics of drugs, drug elimination, drug application, with the importance of vaccination and the major drug groups used in poultry (antibacterial, antiparasitic, feed additives and growth promoters, vitamins and mineral substances, antiseptics and disinfectants, antifungals, and vaccines, etc.) and their properties are studied with the use.
Work Placement	N/A
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, 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	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)
4	Veterinary pharmaclgy and therapeutics edited by H. Richard Adams. Ames, Iwa Iwa State University Press 2001.
5	Veterinary Drug Therapy, 1994. Ths. B. Barragry.

Week	Weekly Detailed Course Contents	
1	Theoretical	Gastrointestinal physiology and the importance of different avian species
	Practice	Examination of the anatomical structure of the gastrointestinal tract in poultry
2	Theoretical	Gastrointestinal physiology and the importance of different avian species
	Practice	Examination of the anatomical structure of the gastrointestinal tract in poultry
3	Theoretical	General rules regarding the use of drugs in poultry
	Practice	Pharmacokinetic calculations in poultry
4	Theoretical	The pharmacokinetics of drugs in poultry
	Practice	Pharmacokinetic calculations in poultry samples
5	Theoretical	The elimination of drugs in poultry
	Practice	Routes of administration of drugs in poultry
6	Theoretical	Drug delivery methods in poultry
	Practice	Examination of field conditions, winged forms of drug application in poultry industry
7	Theoretical	Article discussion
	Practice	Paper presentation
8	Intermediate Exam	-
9	Theoretical	And properties of the antibacterial drugs used in poultry
	Practice	Antibacterial drug applications in poultry
10	Theoretical	Antiparasitic drugs used in poultry and their properties
	Practice	Antiparasitic drug applications in poultry
11	Theoretical	Drugs used in poultry feed additives and the development and characteristics of the accelerator

11	Practice	Accelerating growth in poultry feed additives and pharmaceutical applications
12	Theoretical	Properties of vitamin and mineral substances used in poultry
	Practice	Vitamins and minerals in poultry applications
13	Theoretical	Antiseptic and disinfectant properties of drugs used in poultry and
	Practice	Pharmaceutical applications of antiseptics and disinfectants in poultry
14	Theoretical	Characteristics and features of antifungal drugs used in poultry vaccines
	Practice	Antifungal drug and vaccine applications in poultry
15	Theoretical	Article discussion
	Practice	Paper presentation
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	1	42
Lecture - Practice	14	1	2	42
Midterm Examination	1	3	1	4
Final Examination	1	5	1	6
			Total Workload (Hours)	94
			[Total Workload (Hours) / 25*] = **ECTS**	4

25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Learn about on the importance of gastrointestinal physiology in poultry.
2	Learn about the general rules regarding drug use in poultry.
3	Learn about The pharmacokinetics of drugs in poultry, the elimination of drug administration, vaccination, and the importance.
4	Learn about poultry used drug classes, the features and use.
5	To find out and use resources about the profession 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 Toxicolog
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	4	
P2		4			
P3				4	
P4			5		
P6					5
P7					4

P9		4	4		5
P10	5	5	5	5	
P11	5	5	5	5	