



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Applications and Usages of Drugs in Laboratory Animals							
Course Code		VFT547		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	99 (<i>Hours</i>)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		In accordance with general principles applicable to the treatment of diseases of viral infections in laboratory animals, prevention of secondary infections, bacterial and fungal infections in laboratory animals in treatment which is used in addition to the effects of drug use and drug use in general and local anesthetics and their applications to provide information about, and gain the ability to apply.							
Course Content		Laboratory animals and their characteristics, detection and inspection, maintenance and hygiene rules, in accordance with general principles applicable to the treatment of diseases of viral infections in laboratory animals, prevention of secondary infections, and the effects of drug use in treatment of bacterial and fungal infections and an important addition to the general and local anesthetic drug used in laboratory animals and applications							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, 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	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.

Week	Weekly Detailed Course Contents	
1	Theoretical	Laboratory animals and amenities,
	Practice	Presentation of laboratory animals-1
2	Theoretical	Laboratory animal care, feeding and hygiene rules
	Practice	Presentation of laboratory animals-2
3	Theoretical	Identification and examination of laboratory animals
	Practice	Laboratory animals are kept in-1
4	Theoretical	Common diseases of laboratory animals
	Practice	Kept in laboratory animals-2
5	Theoretical	And treatment of bacterial diseases of laboratory animals
	Practice	Methods of drug administration in laboratory animals-1
6	Theoretical	And treatment of viral diseases of laboratory animals
	Practice	Methods of drug administration in laboratory animals-2
7	Theoretical	Fungal diseases and treatment of laboratory animals
	Practice	Methods of drug administration in laboratory animals-3
8	Practice	Methods of drug administration in laboratory animals-4
	Intermediate Exam	Mid-term exam
9	Theoretical	Metabolic diseases and treatment of laboratory animals



9	Practice	Regulations on laboratory animals cage-1
10	Theoretical	Toxicity and treatment of laboratory animals
	Practice	Laboratory animals lattice arrangements-2
11	Theoretical	Laboratory animals and treatment of skin diseases
	Practice	Laboratory animals metabolic cage-1
12	Theoretical	And treatment of parasitic diseases of laboratory animals
	Practice	Metabolic cage laboratory animals-2
13	Theoretical	And treatment of neoplastic diseases of laboratory animals
14	Theoretical	Euthanasia of laboratory animals
15	Theoretical	Discussion
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	1	42
Lecture - Practice	15	1	2	45
Midterm Examination	1	3	2	5
Final Examination	1	5	2	7
Total Workload (Hours)				99
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Laboratory hayvanalarında will have information on drug applications, and learns
2	Laboratory hayvanalarında will have information about drug use and learn
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'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	4	3			
P3			5		5
P4	5		4		4
P5	3	3			5
P6				5	5



P7				4	
P8					4
P9	5	4	5	5	5

