



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Unfavorable Factors Originated Feedstuffs and Foodstuffs and Their Analysis							
Course Code		VFT549		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	54 (<i>Hours</i>)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Due to drug use, contaminated by residual analysis and related substances from food, feed and teach identification.							
Course Content		Disadvantages arising from the use of drug, food origin, negative factors, nutrients and pollutants in the environment, feed and feed raw materials and production techniques, resulting from the preparation of drawbacks, some of the diets and nutritional value of organic matter who, mycotoxins such as the negative results of examination and discussion of factors.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, 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	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	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London.

Week	Weekly Detailed Course Contents	
1	Theoretical	Source of food contamination
	Practice	The recognition of solid chemicals and properties which used in the lab
2	Theoretical	Practices to prevent food contamination
	Practice	The recognition of liquid and volatile chemicals and properties which used in the lab,
3	Theoretical	Disadvantages caused by drugs
	Practice	The use of basic laboratory equipment
4	Theoretical	Analysis of drug residues in food
	Practice	The use of basic laboratory equipment
5	Theoretical	Mycotoxins in foods remains
	Practice	Pharmacology and toxicology materials used in the analyzes
6	Theoretical	Mycotoxin analysis of residues
	Practice	Liquid-liquid phase extraction
7	Theoretical	Pesticide residues in food
	Practice	Solid-liquid phase extraction
8	Practice	analysis methods of toxicity
	Intermediate Exam	Midterm exam
9	Theoretical	Analysis of pesticide residues
	Practice	Analysis of the sample preparation stages intoxications
10	Theoretical	Analysis of organophosphorus insecticides
	Practice	study report of intoxications
11	Theoretical	Analysis of organochlorine insecticides
	Practice	sample study of intoxications
12	Theoretical	Analysis of carbamate group of insecticides
	Practice	intoxications purchasing the material in laboratory practices
13	Theoretical	Other contaminants



13	Practice	intoxications purchasing the material in laboratory practices
14	Theoretical	Analysis of other contaminants
15	Theoretical	Discussion
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0.25	1	17.5
Lecture - Practice	15	0.25	2	33.75
Midterm Examination	1	0.5	1	1.5
Final Examination	1	0.5	1	1.5
Total Workload (Hours)				54
[Total Workload (Hours) / 25*] = ECTS				2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Analysis of pesticides, and learns to have knowledge about.
2	To obtain information on the analysis of mycotoxins and learns.
3	Other negative factors have knowledge and learns.
4	To learn knowledge and propose suggestions on the area
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 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	4	5		
P3			5	5	
P4		4		4	
P5	5	5	5		
P6					5
P7					4
P9				5	5
P10			4		

