



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Drug Residues, Scientific and Legal Control							
Course Code		VFT540		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	51 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course		To learn the acceptable daily intake, tolerance level, establishment of tolerance, margin of safety, withdrawal times and tolerances of drugs, reasons of residues in foods, monitoring and detection of residues and presence of drug residues in Turkey.							
Course Content		Acceptable daily intake, tolerance level, establishment of tolerance, margin of safety, withdrawal times and tolerances of drugs, reasons of residues in foods, monitoring and detection of residues and presence of drug residues in Turkey 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	Drug Residues in Foods, Scientific and Legal Control
2	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Residues
3	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Daily acceptable intake
4	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Tolerance level and determination of tolerance
5	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Safety factor
6	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Origins of food residue
7	Practice	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Elimination time of residues
9	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Residue – kinetics relation
10	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	The effects of food residues
11	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Surveillance and prevention of residue problems
12	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Practice	Regulations on residues



13	Theoretical	DrugResidues in Foods, Scientificand Legal Control
	Practice	Regulationsaboutresidues in Turkey
14	Theoretical	DrugResidues in Foods, Scientificand Legal Control
	Practice	Residuesurveillanceprogramme
15	Theoretical	Discussion
	Practice	Generally assessment
16	Final Exam	Final

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	10	1	2	30
Midterm Examination	1	10	2	12
Final Examination	1	7	2	9
Total Workload (Hours)				51
[Total Workload (Hours) / 25*] = ECTS				2

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	To learn the residues related food problems
2	To learn the terminology on food residue
3	To inform about the legal issues on food residues
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)**

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		
P6	4	4	4		5
P7	5	5	4		4
P8	2	2	3		
P9	3	4	3	5	5
P10	5	5	5		



P11	2	3	3		
P12	1	1	1		

