



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Drug Residues in Foods, Scientific and Legal Control							
Course Code		VFT630		Couese Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	149 ( <i>Hours</i> )	Theory	2	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	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.
3	Andrews AH.(2004). Bovine Medicine and Husbandry of Cattle. Oxford: Blackwell Science, 2004:1035-44.
4	Traş B., Yazar E., Elmas M. (2007). Veteriner Hekimliğinde ilaç kullanımına pratik ve akılcı yaklaşım, Konya

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
	Preparation Work	Residues
3	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Daily acceptable intake
4	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Tolerance level and determination of tolerance
5	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Safety factor
6	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Origins of food residue
7	Preparation Work	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Elimination time of residues
9	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Residue – kinetics relation
10	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	The effects of food residues
11	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Surveillance and prevention of residue problems
12	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Regulations on residues
13	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Regulations about residues in Turkey



14	Theoretical	Drug Residues in Foods, Scientific and Legal Control
	Preparation Work	Residue surveillance programme
15	Theoretical	Discussion
	Preparation Work	Generally assessment
16	Final Exam	Final exam

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Assignment	5	5	2	35
Midterm Examination	1	12	2	14
Final Examination	1	14	2	16
Total Workload (Hours)				149
[Total Workload (Hours) / 25*] = ECTS				6

\*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 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 (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)**

1	Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
2	To be equipped with the knowledge to develop original ideas about necessary issues in the field by using of both graduate and expertise levels knowledge, to be able to develop original definitions, products and diagnostic procedures, etc. via deepening and questioning these knowledge.
3	Develops and uses strategies in his/her field of expertise in PhD Program of Pharmacology and Toxicology
4	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose.
5	Gains 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.
6	Gains expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
7	Can offer training to technical staff who will work in pharmacology and toxicology laboratory
8	Reach to competence to prepare courses at the undergraduate level
9	Determines and uses laboratory equipment and consumables in a pharmacology and toxicology laboratory.
10	To be able to plan an interdisciplinary project and build team for the known or new defined problems and to manage and complete such a project when necessary.
11	To share his/her knowledge in the field with others by attending at field-related or other congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions, etc., and to contribute to the solution in the team by establishing relations with the experts in different fields.
12	To contribute the scientific knowledge in the field via publications in national and international peer-reviewed scientific journals.
13	Takes roles in vocational organizations and institution.
14	Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

**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	4	
P3	3	3	4	5	
P4	3	4	4		



P5	4	4	4		
P6	4	4	4		
P7	5	5	4		
P8	2	2	3		4
P9	3	4	3		
P10	5	5	5		
P11	2	3	3		5
P12	1	1	1	4	
P13	1	1	1		
P14	4	4	4		5
P15	4	4	4		

