



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Plant Poisons and Their Analysis							
Course Code		VFT546		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	105 ( <i>Hours</i> )	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		To learn the effects of plant poisons, alkaloids, glycosides, analysis procedures subjects and effects.							
Course Content		Plant poisons, alkaloids, glycosides, analysis procedures subjects and effects are examined							
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)		Prof. Ferda AKAR							

### Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

### Recommended or Required Reading

1	Kaya S. (2009). Veteriner Uygulamalı Farmakoloji. Alınmıştır: Kaya S, editor. Veteriner Farmakoloji. 5 ed. Ankara: Medisan Yayınevi.
2	Kaya S. (2008). Tıbbi Botanik ve Tıbbi Bitkiler, Medisan-2008
3	Adams H.R. (1995). Veterinary Pharmacology and Therapeutics, Iowa University Press
4	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London.
5	Klaassen, C. (2008) Casarett & Doull's Toxicology: The Basic Science of Poisons, 7th Edition, McGraw-Hill Companies, USA.
6	Hodgson, E (2010) A textbook of modern toxicology, 4th Edition, John Wiley and Sons, Inc., Hoboken, Canada.
7	Casarett & Doull's Toxicology - The Basic Science of Poison. McGraw-Hill Press
8	Gupta, R.C. Veterinary Toxicology - Basic and Clinical Principles. Academic Press

Week	Weekly Detailed Course Contents	
1	Theoretical	Plant poisons and their analysis
2	Theoretical	Plant poisons and their analysis
	Practice	Alkaloids and their analysis
3	Theoretical	Plant poisons and their analysis
	Practice	Glycosides and their analysis
4	Theoretical	Plant poisons and their analysis
	Practice	Glucocinolates and their analysis
5	Theoretical	Plant poisons and their analysis
	Practice	Phenolic compounds and their analysis
6	Theoretical	Plant poisons and their analysis
	Practice	Eustrogenic plants and their analysis
7	Practice	Midterm exam
	Intermediate Exam	Midterm exam
8	Theoretical	Plant poisons and their analysis
	Practice	Poisonous proteins and peptides and their analysis
9	Theoretical	Plant poisons and their analysis
	Practice	Latirogens and their analysis
10	Theoretical	Plant poisons and their analysis
	Practice	Poison effects of vitamins and their analysis
11	Theoretical	Plant poisons and their analysis
	Practice	Usage of compounds that affect vitamin and their analysis
12	Theoretical	Plant poisons and their analysis
	Practice	Poisonous fatty acids and their analysis



13	Theoretical	Plantpoisonsandtheiranalysis
	Practice	Resinsorresinoidsandtheiranalysis
14	Theoretical	Plantpoisonsandtheiranalysis
	Practice	Othersubstancesandtheiranalysis
15	Theoretical	Discussion
	Practice	Generallyassessmentandtheiranalysis
16	Final Exam	Final

**Workload Calculation**

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	12	1	2	36
Laboratory	10	1	1	20
Midterm Examination	1	10	2	12
Final Examination	1	7	2	9
Total Workload (Hours)				105
[Total Workload (Hours) / 25*] = <b>ECTS</b>				4

\*25 hour workload is accepted as 1 ECTS

**Learning Outcomes**

1	To learn the plant poisons
2	To learn the harmful effects of plant poisons
3	To learn the analysis of plant poisons
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	5		
P3	3	3	4	5	
P4	3	4	4	4	
P5	4	4	4		
P6	5	5	5		5
P7	5	5	5		4
P8	4	4	5		



P9	5	5	5	5	5
P10	5	5	5		
P11	2	3	3		
P12	3	3	4		

