AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Volatil Poisons and Analysis								
Course Code	VFT545		Couse Level	Second Cycle (Master's Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	To be informed about volatile poisons, volatile poisons diagnosis and characteristics, methods of extraction and analysis applications in biological environments								
Course Content	Volatile poisons, volatile poisons diagnosis and characteristics, extraction methods and analysis techniques 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)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Veteriner Hekimliğinde Toksikoloji, Prof. Dr. Sezai KAYA, Prof. Dr. İbrahim PİRİNÇCİ, Prof. Dr. Ayhan ÜNSAL, Prof. Dr. Ali BİLGİLİ, Prof. Dr. Ferda AKAR, Prof. Dr. Abdullah DOĞAN, Doç. Dr. Ender YARSAN; Medisan Yayınevi, 2002.
2	Zehirli Maddelerin Laboratuar Analizi, Prof. Dr. Sezai KAYA; Medisan Yayınevi, 2006.
3	Laboratuvar Testleri Klinik Klavuzu, Alan H. B. WU; Güneş Tıp Kitabevi, 2011
4	Toksikoloji, Prof. Dr. Nevin VURAL; Ankara Üniversitesi Basımevi, 2005
5	Principles and Methods of Toxicology, A. Wallace HAYES, Edward BROTHERS; Ann Arbor Press, 2001
6	Modern Toxicology, Ernest HODGSON, Patricia E. LEVI; Elsevier, London,
7	Principles of Biochemical Toxicology, 3rd Edition, John TIMBRELL; Taylor & Francis Group Press, London, 2000
8	Handbook of Experimental Pharmacology – 199; Comparative and Veterinary Pharmacology, Fiona CUNNINGHAM, Jonathan ELLIOTT, Peter LEES (Editors); Springer Press, 2009

Week	Weekly Detailed Course Contents	
1	Theoretical	Volatile material selection poisons
	Practice	The purchase of essential laboratory practices zehirlenmalerde material
2	Theoretical	Sampling and the importance of volatile poisons
	Practice	Uptake of volatile material intoxication laboratory practices
3	Theoretical	Send samples of volatile poisons
	Practice	Volatile sample review of toxicity
4	Theoretical	Volatile reporting of poisonings
	Practice	Volatile toxicity study report
5	Theoretical	Toxins and methods of separation of volatiles
	Practice	Volatile sample analysis preparation stages of intoxication
6	Theoretical	Methods of analysis of volatile poisons
	Practice	Volatile analysis of toxicity
7	Theoretical	Article discussion
	Practice	Paper presentation
8	Intermediate Exam	Midterm exam
9	Theoretical	Volatile poisons and essential featur
	Practice	Determination of alcohol
10	Theoretical	Volatile poisons and essential features
	Practice	Determination of phenol
11	Theoretical	Volatile poisons and essential features
	Practice	Determination of phosphorus and phosphine

12	Theoretical	Volatile poisons and essential features
	Practice	Determination of halogenated hydrocarbons
13	Theoretical	Volatile poisons and essential features
	Practice	Determination of iodic acid
14	Theoretical	Volatile poisons and essential features
	Practice	Determination of cyanide
15	Theoretical	Article discussion
	Practice	Paper presentation
16	Final Exam	Final

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	15	1	2	45
Midterm Examination	1	10	2	12
Final Examination	1	13	2	15
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	To obtain information about the properties of volatile poisons
2	Learn about the methods of extraction and volatile poisons
3	Learn about analysis and evaluation of volatile poisons
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)*

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	5		
P3		4			5
P4			5		4
P5					5
P6		4		5	5
P7				4	
P8			5		4

P9				5	5
P10			5		
P11	5	5			
P12			5		