



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Metals and Other Inorganic Poisons							
Course Code		VFT531		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	56 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		The harmful effects of metals and metal compounds on animals, and to give information about non-metal poisoning occurring organic substance.							
Course Content		Human and animals with acute, subacute and chronic toxicity and nutrient pollution of the environment and can lead to significant arsenic, cadmium, zinc, copper, mercury, lead, copper, selenium, molybdenum, nickel, antimony, cyanide, bismuth, barium, silver, tin, calcium, chromium, cobalt, sulfur, fluorine and magnesium with substances such as inorganic acid or caustic alkalis, nitrate, nitrite, inorganic compounds such as salt, the radioactive material (radium-226, uranium-238, iodine-131, strontium-89, and 90 , lead-210, cesium-137, etc.) and their effects, degrees of impact types and clinical use.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion, Individual Study					
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	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London.
2	Klaassen, C. (2008) Casarett & Doull's Toxicology: The Basic Science of Poisons, 7th Edition, McGraw-Hill Companies, USA.
3	Hodgson, E (2010) A textbook of modern toxicology, 4 th Edition, John Wiley and Sons, Inc., Hoboken, Canada.
4	Casarett & Doull's Toxicology - The Basic Science of Poison. McGraw-Hill Press

Week	Weekly Detailed Course Contents	
1	Theoretical	General information about Metals
2	Theoretical	Metals that make up the body's building blocks
3	Theoretical	İzelements
4	Theoretical	Creature of the elements of absorption, distribution
5	Theoretical	Participating in events in the body elements
6	Theoretical	Basic duties living thing formation
7	Theoretical	Evaluation
8	Intermediate Exam	Midterm exam
9	Theoretical	Poisonings occurring with elements
10	Theoretical	Poisoning symptoms
11	Theoretical	Treatment of poisonings
12	Theoretical	Poisoning by organic substances
13	Theoretical	Toxicity of organic substances
14	Theoretical	Evaluation
15	Theoretical	Discussion
16	Final Exam	Final

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Midterm Examination	1	1	1	2



Final Examination	1	10	2	12
Total Workload (Hours)				56
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

### Learning Outcomes

1	General information about metals
2	Information about inorganic poisons.
3	Detection and treatment of poisoning caused by organic substances
4	To learn knowledge and propose suggestions on the area
5	To give lectures and/or presentations and discuss with professionals 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	4		
P2	3	3			
P3	3	3			5
P4					4
P5	5	5			5
P6				5	5
P7				4	
P8					4
P9				5	5
P10	5	5	5		

