AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Principles in Toxicology- I								
Course Code	VFT603		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	146 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give information about the development of toxicology, general concepts, definitions and principles, poison, types of poisoning, and the effects.								
Course Content	The development of toxicology, general concepts, definitions and principles, poison, poisoning, types and effects 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	Principles and Methods of Toxicology, A. Wallace HAYES, Edward BROTHERS; Ann Arbor Press, 2001.
2	Modern Toxicology, Ernest HODGSON, Patricia E. LEVI; Elsevier, London, 1987.

Week	Weekly Detailed Course Contents	
1	Theoretical	Poison-drug-related physiological substance
2	Theoretical	Types of Poisoning
3	Theoretical	Classification of poisons-1
4	Theoretical	Classification of poisons-2
5	Theoretical	The effects of poisoning-1
6	Theoretical	The effects of poisoning-2
7	Theoretical	Dose-density relation
8	Intermediate Exam	Midterm exam
9	Theoretical	Mutagenic effect
10	Theoretical	Carcinogenic effects
11	Theoretical	Teratogenic effects
14	Theoretical	Article review and discussion-1
15	Theoretical	Article review and discussion-2
16	Final Exam	Final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2.5	2	63
Assignment	6	3	2	30
Individual Work	6	3	2	30
Midterm Examination	1	7	2	9
Final Examination	1	12	2	14
			Total Workload (Hours)	146
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To be informed about the definition and historical development of toxicology.
2	To be informed about poison, classification and the type of poisoning.

3	To be informed about toxicokinetics.
4	To grasp the general principles of treatment of poisoning.
5	To find out and use resources about the profession 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		5	
P2					4
P3					5
P4	3			4	
P5			5	5	
P6			4	4	
P7		4	4	4	
P10			4	4	
P11			4	4	
P12					4
P13			4	4	