AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Pharmacological Forms of Drugs and Relationship Between Their Structure and Effect								
Course Code	VFT628		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	154 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	The purpose of this course, the solid dosage forms, semi-solid and liquid dosage forms dosage forms of drugs are introduced and galenical preparations and have knowledge about the relationship between structures and the effects they produce.								
Course Content	The purpose of this course, the solid dosage forms, semi-solid and liquid dosage forms dosage forms are introduced and the galenic preparations, pharmaceutical industry, pharmaceutical processing, dose-intensity, and structure-activity relationship of drugs, drug interactions.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Project Based Study, Individual Study								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Veterinary Pharmacology and Therapeutics, 8th Edition, Jim E. Riviere (Editor), Mark G. Papich (Editor), 2009.
2	Modern Pharmacology, 6th Edition, Lippincott Williams and Wilkins, 2004 (Ed. C.R. Craig and R.E. Stitzel)
3	Basic and Clinical Pharmacology, 9th Edition, McGraw-Hill, New York, 2004 (Ed. B. Katzung)
4	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)
5	Lippincott's Illustrated Reviews: Pharmacology, 3rd Edition, Lippincott Williams and Wilkins, 2005 (Eds. Howard, Mycek, Harvey & Champe)
6	The Veterinary Formulary edited by Yolande Bishop. London Pharmaceutical Press in association with the British Veterinary Association 2001.
7	Pharmacology. Franklin A. Ahrens. Baltimore, Md. London Williams & Wilkins 1996.
8	The physiological basis of veterinary clinical pharmacology J. Desmond Baggot. Oxford Blackwell Science 2001.
9	The physiological basis of veterinary clinical pharmacology J. Desmond Baggot. Oxford Blackwell Science 2001.

Week	Weekly Detailed Course Contents	
1	Theoretical	The pharmaceutical preparation forms
2	Theoretical	The solid pharmaceutical forms
3	Theoretical	Liquid drug forms
4	Theoretical	Semi-solid pharmaceutical forms
5	Theoretical	Pharmaceutical drug preparation techniques
6	Theoretical	The effects of the effects of pharmaceutical drugs pharmaceutical forms
7	Theoretical	Dose-effect relationship
8	Intermediate Exam	Mid-term exam
9	Theoretical	Dose-intensity effect
10	Theoretical	Structure-activity relationship
11	Theoretical	Drug interactions
12	Theoretical	Agonist-antagonist
13	Theoretical	İsomerism
14	Theoretical	Geometric and optical isomerism
15	Theoretical	Discussion
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	2	84
Assignment	6	5	2	42
Midterm Examination	1	12	2	14
Final Examination	1	12	2	14
			Total Workload (Hours)	154
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Forms of pharmaceutical drugs to be informed about
2	Create structures and pharmacological effects of the drugs to be informed about the relationship between
3	To learn knowledge and propose suggestions on the area.
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	4			
P2				4	
P3	4	4	4	5	
P4			5		
P6	5	5			
P8	4	4			4
P11			4		5
P12	4	5		4	
P14	4	5	4		5