AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Endocrine System Pharmacology								
Course Code	VFT622		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	6	Workload	148 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	Learning of hormones and drugs that affect the system.								
Course Content	Classification of hormones the hormonal pharmacology, properties, structure-activity relationship, domain shapes, their regulation, and this is scope the synthesis and pharmacokinetics of the hypothalamus and pituitary hormones, affecting fertility hormones, corticotropin, adrenal steroids, steroid derivatives and antagonists, drugs that reduce blood sugar and insulin and , glucagon, parathyroid hormone, thyroid hormones and antithyroid agents.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Individual Study								
Name of Lecturer(s)	Prof. Murat BOYACIOĞLU								

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	Goodman and Gilman's The Pharmacological Basis of Therapeutics 11th Edition, McGraw-Hill, 2006 (Eds. Brunton, Lazo, Parker, Buxton and Blumenthal)
3	Lippincott's Illustrated Reviews: Pharmacology, 3rd Edition, Lippincott Williams and Wilkins, 2005 (Eds. Howard, Mycek, Harvey & Champe)

Week	Weekly Detailed Course Contents	
1	Theoretical	Synthesis and secretion of hormones
2	Theoretical	Forms of hormones
3	Theoretical	Classification of hormones
4	Theoretical	Pharmacokinetics of hormones
5	Theoretical	The pituitary hormones
6	Theoretical	Reproductive Hormones
7	Theoretical	The adrenal hormones
8	Intermediate Exam	Midterm exam
9	Theoretical	Adrenal steroids are synthetic derivatives
10	Theoretical	Insulin and blood sugar lowering medications
11	Theoretical	Thyroid hormones and anthyroid hormones
12	Theoretical	Calcitonin
13	Theoretical	Parathormone
14	Theoretical	Evaluation
15	Theoretical	Discussion
16	Final Exam	Final

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	2	2	56
Assignment	9	2	2	36
Individual Work	8	2	2	32
Midterm Examination	1	8	2	10

Final Examination	1	12	2	14
			Total Workload (Hours)	148
			[Total Workload (Hours) / 25*] = **ECTS**	6
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To obtain information on the impacts mechanisms and the secretion of hormones.
2	Semi-synthetic hormones and the effects of the mechanisms of action.
3	Learns the use of hormones in veterinary medicine.
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	5		
P2				4	
P3	4	5	4	5	
P6	5	3	4		
P8	4	4	5		4
P11					5
P12	5	5	4	4	
P14	4	5	4		5