AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Chemical Structure and Effect Mechanism of Hormones								
Course Code	VBY604		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give information about definition, classificition, chemical structure of hormones, their biochemical important, hormones and receptors, their effect mecanisms and to give to acquire the ability to use the information								
Course Content	Definition of hormone, classifications, chemical stuructures and properties, biomedical importance, hormone and receptor interactions, action mechanism of hormones								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation)								
Name of Lecturer(s)	Prof. Funda KIRAL								

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

Recommended or Required Reading	
1	Kaya, N. (1993) Biyokimya, Atatürk Üniversitesi, Erzurum
2	Murray, R.K. (1993) Harper's Biochemistry, Appleton and Lange, Norwalk
3	Onat, T., Emerk, K. (1997) Biyokimya, Saray, İzmir.
4	Sittman, D. (2000) Biyokimya, çev. Güner G., Nobel, İstanbul.
5	Nihat BAYŞU, Nalan Bayşu SÖZBİLİR.(2008) Biyokimya Güneş Tıp kitabevleri, 2008

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition and classificition of hormones
2	Theoretical	Intracellular mesenger system
3	Theoretical	Regulation of secretion of hormones
4	Theoretical	Reseptors
5	Theoretical	Mechanisms of action of hormones
6	Theoretical	Endocrine glands and hormones
7	Theoretical	Pituitary hormones
8	Theoretical	Thyroid Hormones
9	Intermediate Exam	Midterm exam
10	Theoretical	Pituitary hormones
11	Theoretical	Parathyroid gland hormones
12	Theoretical	Pancreatic hormones
13	Theoretical	Adrenal gland hormones
14	Theoretical	Gender gland hormones
15	Theoretical	Discussion
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	2	2	60
Assignment	2	6	0.5	13
Midterm Examination	1	11	1	12

Final Examination	1	14	1	15
			Total Workload (Hours)	100
			[Total Workload (Hours) / 25*] = **ECTS**	4
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	to learn general knowledge about hormones
2	to understand intracellular mesenger system
3	to learn hormone’s chemical structure and principles
4	to understand hormon-reseptor complex
5	to learn the pituitary hormones
6	to learn thyroid gland hormones
7	to learn gender gland hormones
8	to learn the adrenal gland hormones
9	to learn pancreatic hormones
10	to give to acquire the ability to use the information

Programme Outcomes *(Biochemistry (Veterinary Medicine) Doctorate)*	
1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels.
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed.
3	Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research.
4	Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields.
5	Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field.
6	Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems.
7	Designs unique researches and implements independently.
8	Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking.
9	Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems.
10	Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions.
11	Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals.
12	Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly.
13	Designs and implements social projects with the awareness of creating an information society.
14	Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims.
15	Develops and uses strategies about related topics with the field.
16	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary.
17	Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them.
18	Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
P1	3	4	3	3	3	3	3	3	3	3
P4	3	3	3	3	3	3	3	3	3	3
P8	3	3	3	3	3	3	3	3	3	3
P12	3	3	3	3	3	3	3	3	3	3
P14	3	3	3	3	3	3	3	3	3	3
P16	3	3	3	3	3	3	3	3	3	3
P17	3	3	3	3	3	3	3	3	3	3