HORMONE BIOCHEMISTRY

1	Course Title:	HORMONE BIOCHEMISTRY	
2	Course Code:	VBK5004	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	4.00	
8	Theoretical (hour/week):	2.00	
9	Practice (hour/week):	0.00	
10	Laboratory (hour/week):	0	
11	Prerequisites:	none	
12	Language:	Turkish	
13	Mode of Delivery:	Face to face	
14	Course Coordinator:	Doç. Dr. Duygu UDUM	
15	Course Lecturers:	yok	
16	Contact information of the Course Coordinator:	duygudum@uludag.edu.tr	
17	Website:		
18	Objective of the Course:	Explanation of the functions of hormones in the human and animal body and it's demonstration of integration with metabolism	
19	Contribution of the Course to Professional Development:	To have knowledge about hormones in professional practice	
20	Learning Outcomes:		
		1	To have information about the metabolic regulation of hormones
		2	To have knowledge about the action mechanisms of hormones
		3	To learn hormones secreting tissues and glands
		4	To have information about which hormone does what functions
		5	To learn diseases that may occur in hormone deficiency
		6	To learn what symptoms occur in hormone diseases
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21	Course Content:		

Course Content:

Week	Theoretical	Practice
1	Introduction to Hormone Biochemistry (Endocrine System) What is a hormone, control and regulation systems, endocrine glands, pituitary-hypothalamus relationship	

2	Hormonal mechanisms of action (endocrine effect, paracrine effect, autocrine effect)	
3	Transport, half-life, destruction and biorhythmia of hormones	
4	Hormone Receptors What is a receptor, what are its types, properties of receptors	
5	Hypothalamus and Pituitary Hormones Hormones that stimulate pituitary, adenohypophysis hormones, neurohypophysis hormones	
6	Thyroid Hormones Triiodothyronine, thyroxine hormones and their mechanisms of action	
7	Hormones that affect calcium and phosphorus metabolism Hormones secreted from the thyroid gland and parathyroid gland (Calcitonin and Parathormon)	
8	Adrenal hormones Hormones secreted from the cortex and medulla and their effects	
9	Ovarian hormones (estrogen, progesterone, relaxin) and hormones from testicles (testosterone), their effects	
10	Pancreatic hormones Secreted hormones from the endocrine part and preperation	
11	Gastrointestinal hormones like gastrin	
12	Diseases related to disorders in hormone secretion	
13	Midterm Exams	
14	Disorders in the endocrine pancreas	
22	Materials:	Clinical Endokrinology
23	Assesment	

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm Exams	0	0.00	0.00
Others	0	0.00	0.00
Final Exams	1	20.00	20.00
Total Work Load			118.00
Total work load/ 30 hr			3.93
ECTS Credit of the Course			4.00

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	Test

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK2	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK3	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK6	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**