	BIOCHEMISTI	RY OF	ENDOCRINE SYSTEM							
1	Course Title:	BIOCHE	MISTRY OF ENDOCRINE SYSTEM							
2	Course Code:	TBK6006	6							
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	2								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to f	face							
14	Course Coordinator:	Prof. Dr.	EMRE SARANDÖL							
15	Course Lecturers:	yok								
16	Contact information of the Course Coordinator:	Prof. Dr. H. Asuman Tokullugil atokullu@uludag.edu.tr (224) 2953901 U.Ü. Tıp Fakültesi, Tıbbi Biyokimya AD, Görükle- BURSA								
17	Website:									
18	Objective of the Course:	The aim of this course is to teach the structures, biosynthesis, secretion and metabolism of hormones . Following; in order to teach the effects of hormones in the human body , some of the endocrinological tests and their evaluation in the clinics are given as examples.								
19	Contribution of the Course to Professional Development:	Contribu	tion to academic development							
20	Learning Outcomes:									
		1	To explain; The SIGNAL TRANSMISSION SYSTEMS							
		2	To list ; The RECEPTORS: TYPES AND GENERAL CHARACTERISTICS							
		3	To explain the mechanism of SECONDARY MESSENGER SYSTEMS							
		4 To explain the HORMONES :DEFINITION AND IMPORTANCE IN MEDICINE								
		5	To list the CLASSIFICATION OF HORMONES							
		6	To explain the MODE OF ACTION OF HORMONES THAT HAVE INTRACELLULER RECEPTORS							
		7	To explain the mechanism of NUCLEAR RECEPTORS.							

		8	To explain the THYRC							
		9	METABOLISM, connected with nuclear receptors.							
		-	To explain the MODE OF ACTION OF HORMONES THAT HAVE INTRACELLULER RECEPTORS							
		10	To explain the MODE OF ACTION OF HORMONES THAT HAVE CELL SURFACE RECEPTORS							
21	Course Content:									
		Co	urse Content:							
Week	Theoretical		Practice							
1	SIGNAL TRANSMISSION SYSTEMS	-ENTRY								
	RECEPTORS: TYPES AND GENERA CHARACTERISTICS	AL.								
	SECONDARY MESSENGER SYSTE A-ADENYLATE CYCLASE AND SYSTEM									
4	G-PROTEINS AND EXAMPLES									
	SECONDARY MESSENGER SYSTE B-CALCIUM / PHOSPHATIDYLINOSITOL SYSTEM									
Activite	SECONDARY MESSENGER_SYSTE es	MS∙	Number	Duration (hour)) Total Work Load (hour)					
Theore	HORMONES :DEFINITION AND		14	1.00	14.00					
Practica	als/Labs		0	0.00	0.00					
Self stu	RECEPTORSALION		14	9.00	126.00					
Homew			0	0.00	0.00					
Project	CLASSIFICATION OF HORMONES		0	0.00	0.00					
Field St	udies		0	0.00	0.00					
Midtern	example and the second se		0	0.00	0.00					
Others			0	0.00	0.00					
Final E	kams	_	1	10.00	10.00					
	/ork Load				150.00					
Total w	NODE OF ACTION OF HORMONES				5.00					
	Credit of the Course				5.00					
	B-CYTOSOLIC RECEPTORS. EX.:GLUCOCORTICOIDS									
	MODE OF ACTION OF HORMONES HAVE CELL SURFACE RECEPTOR									
	METABOLIC EFFEECTS OF GLUCA AND ADRENALINE : EFFECTS ON GLYCOLYSIS , GLUCONEOGENESIS , GLYCOGEN AND GLYCOGENESIS									
	ORGANIZATION , LOCALIZATION A REGULATION OF ENDOCRINE SYS									

22	Textbooks, References and/or Other Materials:	1-MURRAY R.K., GRANNER D.K., MAYES P.A., RODWELL V.W. HARPER'S BİYOKİMYA .Bölüm 20,44,46,49,51/(Çev.Editörü: Dikmen N.,Özgüven T.) 25.Baskı,Nobel Tıp,İstanbul,2004. ss:199-208,534- 550,561-567,588-602,610-625 2-HARVEY R.A., CHAMPE P.C. LİPPİNCOTT'S ILLUSTRATED REVIEWS BIOCHEMİSTRY .Bölüm: 11,23.(Çev.Editörü:Ulukaya E.) 3.Baskı , Nobel Tıp , 2007, İstanbul. ss.123-135,305-319 3-BURTIS C.A. , ASHWOOD E.R. KLİNİK KİMYADA TEMEL İLKELER , TIETZ .Bölüm:26,27,40/ (Çev.Editörü:Aslan D.) 5.Baskı,Palme yayıncılık,Ankara,2005. ss.518-529,529-543,839-857. 4-NELSON D.L. , MICHEAL M.C. LEHNINGER BİOKİMYANIN İLKELERİ.Bölüm: 13,14,23/ (Çev.Editörü:Kılıç N.) 3.Baskı,Palme yayıncılık, Ankara, 2005.ss:437-485,485-527,869-907. 5-BHAGAVAN N.V./ BHAGAVAN CHEMISTRY . chapter:13 . 2.Edition,Library of C ongress Cataloging in Publication Data,1978.pp:1213-1244.

23 Assesment

ZJ / lessesment												
TERM LEARNING ACTIVITIES	NUMBE R	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 Activitie Success Grade	es to	0.00										
Contribution of Final Exam to Success Grade	Э	100.00										
Total		100.00										
Measurement and Evaluation Techniques Us Course	sed in the	Measurement and evaluation are performed according to the Rules & Regulations of Bursa Uludağ University on Undergraduate Education.										

24 ECTS / WORK LOAD TABLE

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ10														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	5	0	3	0	0	0	0	0	0	0
ÖK2	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	5	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0
ÖK4	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	5	5	0	0	0	0	2	2	0	0	0	0	0	0	0	0
ÖK8	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0

ÖK9	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK10	0				0				-	0	0	0		0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib 1 very low ution Level:					2 low 3 Medium 4 High 5 Very I							y High				