

MOLECULAR ENDOCRINOLOGY

1	Course Title:	MOLECULAR ENDOCRINOLOGY	
2	Course Code:	MBG3106	
3	Type of Course:	Optional	
4	Level of Course:	First Cycle	
5	Year of Study:	3	
6	Semester:	6	
7	ECTS Credits Allocated:	5.00	
8	Theoretical (hour/week):	3.00	
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:	To understand the molecular action mechanisms of hormones	
19	Contribution of the Course to Professional Development:	To be able to use this information according to the field of study	
20	Learning Outcomes:		
		1	To have information about the metabolic regulation of hormones
		2	Integrate and evaluate critically information from various sources.
		3	Plan, conduct and write a programme of original research.
		4	To have knowledge about the action mechanisms of hormones
		5	To learn hormones secreting tissues and glands
		6	Communicate effectively through oral presentations
		7	To have information about which hormone does what functions
		8	To learn diseases that may occur in hormone deficiency
		9	To learn what symptoms occur in hormone diseases
		10	
21	Course Content:		
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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	Hormones that affect calcium and phosphorus metabolism Hormones secreted from the thyroid gland and parathyroid gland (Calcitonin and Parathormon)			
7	Hormones that affect calcium and phosphorus metabolism Hormones secreted from the thyroid gland and parathyroid gland (Calcitonin and Parathormon)			
8	Adrenal hormones			
Activites		Number	Duration (hour)	Total Work Load (hour)
9	Endocrine and steroid hormones Theories of synthesized and secreted hormones from	14	3.00	42.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		0	0.00	0.00
Homeworks		0	0.00	0.00
10	Secreted hormones from the endocrine part of the pancreas	0	0.00	0.00
Field Studies		0	0.00	0.00
11	Gastrointestinal hormones like gastrin, secretin, cholecystokinin, ghrelin etc	1	45.00	45.00
Midterm Exams		0	0.00	0.00
Others		0	0.00	0.00
12	Secretion Disorders of pituitary hormones	1	60.00	60.00
Total Work Load				147.00
13	Disorders of the thyroid and adrenal glands			4.90
ECTS Credit of the Course				5.00
22	Textbooks, References and/or Other Materials:	Harper's Biochemistry Endocrinology		
23	Assesment			
TERM LEARNING ACTIVITIES		NUMBE R	WEIGHT	
Midterm Exam		1	40.00	
Quiz		0	0.00	
Home work-project		0	0.00	
Final Exam		1	60.00	
Total		2	100.00	
Contribution of Term (Year) Learning Activities to Success Grade		40.00		

Contribution of Final Exam to Success Grade	60.00
Total	100.00
Measurement and Evaluation Techniques Used in the Course	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	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
ÖK7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
ÖK9	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			