



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Hormones and Other Regulatory Molecules							
Course Code		BYK602		Course Level		Third Cycle (Doctorate Degree)			
ECTS Credit	5	Workload	125 (<i>Hours</i>)	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To learn the structure and functions of hormones and other molecules which are the regulatory molecules in metabolism							
Course Content		Hormones and growth factors, other regulatory molecules such as cytokines, effects on signal transduction pathways, gene expression and cell function, inflammation.							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	hormones: From Molecules to Disease
2	Harrison endocrinology
3	Hormones and endocrin system

Week	Weekly Detailed Course Contents	
1	Theoretical	General properties of hormones I
2	Theoretical	General properties of hormones II
3	Theoretical	Classification of hormones according to their structure
4	Theoretical	Classification of hormones according to their mechanism of action
5	Theoretical	Mechanisms of action of hormones I
6	Theoretical	Mechanisms of action of hormones I
7	Theoretical	Mechanisms of action of hormones III
8	Intermediate Exam	Hormones and other regulatory molecules midterm
9	Theoretical	Protein hormones I
10	Theoretical	Protein hormones II
11	Theoretical	Hormones with glycoprotein structure I
12	Theoretical	Hormones with glycoprotein structure II
13	Theoretical	Hormones with glycoprotein structure III
14	Theoretical	Steroid hormones I
15	Theoretical	Steroid hormones II
16	Final Exam	Hormones and other regulatory molecules final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	4	1.5	77
Midterm Examination	1	22	2	24
Final Examination	1	22	2	24
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To learn about hormones and their general properties
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2	Learning the classification of hormones and explaining their structures
3	To learn the mechanism of action of hormones at cellular level
4	To have information about metabolic effects of hormones
5	To be able to make biochemical explanation of the relationship between hormones

Programme Outcomes (Biochemistry (Medical) Doctorate)

1	To have basic theoretical knowledge about biochemistry and to help understanding biochemistry
2	To have the basic laboratory knowledge, apparatus and methods used in biochemistry
3	Analysis: To be able to analyze information critically
4	Synthesis: To be able to synthesize and adapt the knowledge in the field from different directions
5	Evaluation: To critically evaluate research in the field

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	5	5	5	5
P2	4	4	4	5	5
P3	5	5	5	5	4
P4	4	5	5	4	5
P5	5	4	4	5	5

