



## AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Metabolism							
Course Code		BYK503		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	5	Workload	125 ( <i>Hours</i> )	Theory	3	Practice	0	Laboratory	0
Objectives of the Course		To learn about the metabolic events in living body							
Course Content		Interrelationships and control mechanisms in cellular and organismal metabolism. Understanding interactions between key metabolic pathways (lipids, carbohydrates, amino acids and nucleic acids) and control of these pathways under different physiological conditions and in human disease							
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	Carbohydrate biochemistry and metabolism:Karla L. Roehrig
2	Principles and Practice of Endocrinology and Metabolism:Kenneth L. Becker

Week	Weekly Detailed Course Contents	
1	Theoretical	The role of carbohydrates in metabolism
2	Theoretical	The role of carbohydrates in metabolism
3	Theoretical	The role of carbohydrates in metabolism
4	Theoretical	The role of carbohydrates in metabolism
5	Theoretical	The role of carbohydrates in metabolism
6	Theoretical	Metabolization of lipids
7	Theoretical	Metabolization of lipids
8	Intermediate Exam	Quiz
9	Theoretical	Metabolization of lipids
10	Theoretical	Metabolization of lipids
11	Theoretical	Metabolism of amino acids
12	Theoretical	Metabolism of amino acids
13	Theoretical	Metabolism of nucleic acids
14	Theoretical	Metabolism of nucleic acids
15	Theoretical	Metabolism of nucleic acids
16	Final Exam	Final exam

### Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	3	56
Assignment	10	1	5	60
Individual Work	1	1	8	9
Total Workload (Hours)				125
[Total Workload (Hours) / 25*] = ECTS				5

\*25 hour workload is accepted as 1 ECTS

### Learning Outcomes

1	To obtain general information about the metabolism of carbohydrates
2	To obtain general information about the metabolism of lipids



3	To obtain general information about the metabolism of amino acids
4	To obtain general information about the metabolism of nucleic acids
5	Metabolism under different physiological conditions and in human diseases

**Programme Outcomes (Biochemistry (Medical) Master)**

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

