AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Basic Biochemistry								
Course Code	GT504		Couse Level	Short Cycle (Associate's Degree)					
ECTS Credit	2	Workload	45 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	This derste is aimed at understanding the biomolecules of the students and the tasks of these molecules. It is also intended to teach the processes of biochemical events occurring in the body and the basic metabolic events.								
Course Content	Our course covers the structure and importance of water and water, the structures and functions of biomolecules such as proteins and building blocks, carbohydrates and building blocks, lipids, and nucleic acids.								
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	70

Recommended or Required Reading	
1	Bukhari, H. Biochemistry. Nobel Publishing Distribution. 2010. Aktümsek, A., Nurullahoğlu, Ü.Z. Practical Biochemistry. Nobel Publishing Distribution. 2007

Week	Weekly Detailed Course Contents	
1	Theoretical	Course Introduction and Basic Components of Living Organisms
2	Theoretical	Water and water structure
3	Theoretical	Structures of proteins and amino acids
4	Theoretical	Nucleic acids
5	Theoretical	Enzymes
6	Theoretical	Vitamins
7	Theoretical	Carbohydrates
8	Intermediate Exam	Midterm
9	Theoretical	Lipids
10	Theoretical	Functions of proteins in metabolism
11	Theoretical	Functions of enzymes in metabolism
12	Theoretical	Functions of vitamins in metabolism
13	Theoretical	Functions of carbohydrates in metabolism
14	Theoretical	Functions of lipids in metabolism
15	Theoretical	General lesson again
16	Final Exam	Final exam

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	15	0	2	30
Midterm Examination	1	5	0	5
Final Examination	1	10	0	10
			Total Workload (Hours)	45
			[Total Workload (Hours) / 25*] = **ECTS**	2
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	Describe the structures of amino acids and proteins

2	Describe the properties and structures of carbohydrates
3	Describe structures and properties of lipids
4	They will be able to describe the structures and properties of enzymes, vitamins and minerals.
5	Learning some basic components of human biochemistry

Programme Outcomes *(Apiculture)*	
1	Understand to bee family (ecology, behavior), needs and diseases of bees. To make needs for healthy colony.
2	Produce of bee and bee products with modern techniques
3	Undestand and use of tools and equipments uesd in Apiculture
4	Understand to nectar and pollen vegetables
5	To know nomadic apiculture conditions
6	Packing of bee products
7	Application to hygienic rules in apiculture enterprise
8	To have information of professional ethics and responsibility
9	Ability to work in team and individual
10	To communicate orally and in writing