HEALTH AND BIOCHEMISTRY

1	Course Title:	HEALTH AND BIOCHEMISTRY
2	Course Code:	BYL0521
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	2
6	Semester:	3
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. EGEMEN DERE
15	Course Lecturers:	Prof. Dr. Ferda ARI
16	Contact information of the Course Coordinator:	Doç. Dr. Egemen DERE Bursa Uludağ Üniversitesi Fen Ed. Fak Biyoloji Bl. Moleküler Biyoloji Anabilim Dalı Tel: 0 224 41792 edere@uludag.edu.tr
17	Website:	
18	Objective of the Course:	The aim of the course is to describe macromolecules. Deficiency or redundancy of these molecules is to inform about the health problems that may arise. discuss what measures should be taken and to inform about current issues like gene therapy, stem cells, cloning, cancer and GMO.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	To comprehend the structure and function of macro molecules
	2	To comprehend the protein synthesis and metabolism
	3	To comprehend the energy requirement of metabolism
	4	To comprehend the importance of macromolecules in nourishment
	5	To identify the important diseases related to our health
	6	To earn the ability to how to treat against life threatening situations
	7	To understand the structure of DNA and genes
	8	To have sufficient knowledge in areas of gene therapy, stem cell, cloning
	9	
	10	

21	Course Content:	
	Course Content:	
Week	Theoretical	Practice
1	The importance of water and electrolytes for living beings	

2	Eating healthy and macromolecules	
3	Food Additives	
4	Structural properties of amino acids and peptides, Structure and function of peptid hormones	
5	Protein synthesis, some important proteins, blood proteins	
6	Nature's secrets	
7	Structure and function of nucleic acids. Gene therapy.	
8	Exam and answer of examination questions, general discussion	
9	Stem cell and Cloning	
10	The human body and systems	
11	Digestive system	
12	Movement and muscle contraction	
13	Poisoning	
14	Structure and function of lipids. The importance of cholesterol in our health. Metabolic diseases	

22	Textbooks, References and/or Other Materials:	Health and Biochemistry textbook, Associate professor Dr. Egemen Dere

Activites			Number	Duration (hour)	Total Work Load (hour)
TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**			
Theoretical			14	3.00	42.00
Practicals/Labs			0	0.00	0.00
Self Study and preperation	0	0.00	5	10.00	50.00
Homeworks			0	0.00	0.00
Project Es			0	0.00	0.00
Final Exam	1	60.00	1	3.00	3.00
Field Studies			0	0.00	0.00
Midterm exams			1	3.00	3.00
Others			8	6.00	48.00
Final Exams			1	3.00	3.00
Total Work Load					146.00
ECTS Credit of the Course					5.00

24	**ECTS / WORK LOAD TABLE**

Contribution of Term (Year) Learning Activities to Success Grade	40.00
Contribution of Final Exam to Success Grade	60.00
Total	100.00

Total work load/ 30 hr	4.87
Measurement and Evaluation Techniques Used in the	

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0

ÖK5	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	1	0	0	3	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**