

# BIOCHEMISTRY APPLICATION

1	Course Title:	BIOCHEMISTRY APPLICATION
2	Course Code:	BYL0516
3	Type of Course:	Optional
4	Level of Course:	First Cycle
5	Year of Study:	4
6	Semester:	8
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:	Doç.Dr. Ferda ARI
16	Contact information of the Course Coordinator:	Bursa Uludağ Üniversitesi Fen-Ed. Fak. Biyoloji Bl. 0 224 29 41792 / e-posta: edere@uludag.edu.tr
17	Website:	
18	Objective of the Course:	Aim of the course is to inform the students about real life experiences such as accidents and diseases, and about first aid and taking measure against these events. Goal of the course; the importance of water in biochemistry, understanding of blood glucose, cholesterol, bilirubin, fat and protein. Regulation of body temperature, frostbite and burns, poisoning, drowning calls, bleeding and injuries. Animal and insect bites and to describe biochemical changes.
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	
	1	To understand the importance of biochemistry for living beings.
	2	To understand the importance of the molecular structure of water and its significance for living beings
	3	May identify macro molecules.
	4	May evaluate the obtained datum.
	5	To comprehend the forming of the body temperature and its preservation.
	6	To comprehend the blood groups.
	7	To comprehend what to do against varied haemorrhage situations
	8	To apprehend the effect of oxygen Carbon dioxide, and carbon monoxide.
	9	
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21	Course Content:	
	<b>Course Content:</b>	
Week	Theoretical	Practice

<b>1</b>	Importance of biochemistry and macro molecules	
<b>2</b>	The importance of water in living.	
<b>3</b>	What is pulse pressure? How to measure?	
<b>4</b>	Carbohydrates and diabetes	
<b>5</b>	Lipids and cholesterol	
<b>6</b>	Amino-acids, proteins, enzymes.	
<b>7</b>	The molecular structure of the membrane. What is heat and temperature? How is body temperature regulated?	
<b>8</b>	Exam and answer of examination questions, general discussion	
<b>9</b>	How is freezing and burns?	
<b>10</b>	Occurrence of poison ingestion and food poisoning (Endotoxins Exotoxins, botilusmus, mushroom poisoning, honey poisoning, ethyl alcohol and methyl alcohol poisoning).	
<b>11</b>	Respiration, oxygen, carbon dioxide, carbon monoxide, drowning in salt water and in fresh water.	
<b>12</b>	Poisoning by pesticides and drugs.	
<b>13</b>	Animal bites and insect stings	
<b>14</b>	Blood cell, (hemoglobin, hepatitis) blood groups and bleeding, injuring, The importance	

24	ECTS / WORK LOAD TABLE
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[illegible]

ÖK4	0	2	2	0	4	0	0	2	2	0	0	1	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	0	0	0	0	0	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			