	BIOCHEMISTRY APPLICATION										
1	Course Title:	ВІОСНЕ	MISTRY APPLICATION								
2	Course Code:	BYL0516	6								
3	Type of Course:	Optional									
4	Level of Course:	First Cyc	cle								
5	Year of Study:	2									
6	Semester:	4									
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 f	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 comprehend the importance of biochemistry for living things, to give information about biochemical pathways by explaining the cell, tissue, organs and systems.									
19	Contribution of the Course to Professional Development:	Health is important to all of us. When we get sick, we are treated by doctors. We have analyzes done in hospital laboratories. Basic concepts of how both blood and urine analyzes are used in the diagnosis of diseases are learned in this course.									
20	Learning Outcomes:										
		1	To understand the importance of biochemistry for living beings.								
		2	Understand the importance of clinical biochemistry for patients								
		3	May identify macro molecules.								
		4	May evaluate the obtained datum.								
		5	Learn cells, tissues, organs and systems								
		6	Understands the relationship between blood pressure and pulse. Understands blood groups. Understands what to do in bleeding								
		7	Learn about alcohol and other drugs								
		8	To apprehend the effect of oxygen Carbon dioxide, and carbon monoxide.								
		9									
		10									
21	Course Content:										
107	T. C. 1	Сс	ourse Content:								
Week	Theoretical		Practice								

1		Importance of biochemistry and macro molecules																
2	Elect	Electrolytes, Vitamins, Proteins, Carbohydrates, Fats, Enzymes																
3	Enzy	Enzymes in Clinical Biochemistry, urine analysis Microscopy																
4		Cell Biology: Cell Membrane and Organelles																
5		Cell division Amytosis, Mitosis and Meiosis																
6	PH a	PH and Buffer systems, Introduction to metabolism, ATP																
7	Oxygen-free breathing; Glycolysis, Creps, Electron Transport system and ATP synthesis																	
8	Nucle	Nucleic acids structure and functions, DNA fingerprinting Protein synthesis																
9	Body	Reproduction in living creatures, Tissues, Body regions, Muscle Structure Muscle tissue muscle contraction																
10	Blood	Blood Tissue, blood proteins and coagulation																
11	Blood	d cire	culatio	on sys	tem, r	espira	tory s	ystem	,									
12		Blood circulation system, respiratory system, Action potential, Motor endplate, Nervous system, Excretory system Kidney																
13	Skele	etals	systen	n, Hor	mone	s, Sen	sory (organs	3									
14				? Car		narkers	and	cell										
Theore	Activites TERM®EARNING ACTIVITIES NUMBE							= J\a/r	44cur			Dura	, ,			Load (hour)		
Practic			ACTI	VIIIES	•		<u> :</u>	NUMBE		W≜fGHT 0				0.00			0.00	
Self st			opera	tion						70.00				10.00			30.00	
Home		и рі	орога							0							0.00	
Projec	WOIK-L	лојс	.c t					,		0.00				15.00			15.00	
Field S	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									0						0.00		
	m exams									100.00				3.00				
Others		~ (T	<u> </u>	/~~"\	<u> </u>	:	د. ادا م	-1-	140	6				10.00				
Final E	xams	exams outlion of Final Exam to Success Grade								60,00						3.00		
Total V	oution of Final Exam to Success Grade Vork Load									. ()()						153.00		
Total v	vork lo	ad/:	30 hr		_		-,,		10	0.00						5.10		
ECTS	Credit	of th	ne Co	urse												5.00		
24	ECT	S/	WOI	RK L	OAD	TAB	LE											
25	5		(CON	TRIE	BUTIC	N O			IING LIFIC			S TO I	PROC	SRAM	ME		
	Р	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16	
ÖK1	0		1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	
ÖK2	0)	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	
ÖK3	1		1	1	2	0	0	0	0	2	0	0	1	0	0	0	0	
ÖK4	0)	2	2	3	3	0	0	0	1	0	1	0	0	0	0	0	
				<u> </u>	·			1		1	1					1	,	

Contrib 1 very low ution Level:		2	2 low		3 Medium			4 High			5 Very High					
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0
ÖK7	2	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0
ÖK6	1	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0
ÖK5	3	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0