	BIOCHE	MIST							
1	Course Title:	BIOCHE	MISTRY APPLICATION						
2	Course Code:	BYL0516							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc							
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 Biyoloj 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:								
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:								
		Co	ourse Content:						
Week	Theoretical		Practice						

1	Importance of biochemistry and macro molecules																	
2	Electrolytes, Vitamins, Proteins, Carbohydrates, Fats, Enzymes																	
3	Enzymes in Clinical Biochemistry, urine analysis Microscopy																	
4	Cell Biology: Cell Membrane and Organelles																	
5	Cell division Amytosis, Mitosis and Meiosis																	
6	PH and Buffer systems, Introduction to metabolism, ATP																	
7	Oxygen-free breathing; Glycolysis, Creps, Electron Transport system and ATP synthesis																	
8	Nucleic acids structure and functions, DNA fingerprinting Protein synthesis																	
9	Reproduction in living creatures, Tissues, Body regions, Muscle Structure Muscle tissue muscle contraction								e									
10	Blood	d Tis	sue, l	bool	protei	ns and	coag	ulatio	n									
11	Blood circulation system, respiratory system,																	
12	Action potential, Motor endplate, Nervous system, Excretory system Kidney																	
13	Skeletal system, Hormones, Sensory organs								;									
14	What is cancer? Cancer markers and cell death. Drugs and Poisons																	
Activites							1	Numb	er		Duration (hour)			Total Work Load (hour)				
TERM®	tiegarkn	NING	ACTI	VITIES	;		N	UMBE	E WÉ	wéńgнт				3.00			42.00	
Practica	als/La	abs								0				0.00			0.00	
Self stu	in Exa	nd pr	epera	tion						,			10.00			30.00		
Homeworks									0				0.00					
Project	<u>s </u>	JOJO												15.00				
	Field Studies									0				0.00				
Midtern	Midterm exams								- 19	1					3.00			
Others	entribution of Torre (Maar) Learning Activities to								-14	6			10.00			60.00		
<u>Einal E</u>	nal Exams									60,00				3.00			3.00	
Total W			inal F	xam to	Suc	Cess (i	rade		- 60	60.00						153.00		
Total work load/ 30 hr									55.55						5.10			
ECTS (ECTS Credit of the Course											<u> </u>	<u> </u>			5.00		
24	ECT	rs /	WO	RK L	OAD	TAB	LE											
25				CON	TRIB	UTIO	N O				OUTC ATIO		S TO I	PROG	GRAM	ME		
	F	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK2	C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK3	C)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
ÖK4	C)	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																	
Contrib ution Level:	on j				2 low			3 Medium			4 High			5 Very High			