	BIO	CHEN	IISTRY II LAB							
1	Course Title:	ВІОСНЕ	MISTRY II LAB							
2	Course Code:	BYL305	6							
3	Type of Course:	Compuls	sory							
4	Level of Course:	First Cyc	cle							
5	Year of Study:	3								
6	Semester:	6								
7	ECTS Credits Allocated:	2.00								
8	Theoretical (hour/week):	0.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	2								
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:		edere@uludag.edu.tr Tel: 0224 294 17 92							
17	Website:									
18	Objective of the Course:	Aim and goal of the course, understaning structure and variety of carbohydrates and lipids. Showing qualitative and quantitative analysis of carbohydrates. Microscopic examination of carbohydrates. Showing structure and occurrence of lipids. The importance of cholesterol and cholesterol determination in blood. Showing formation of soap and saponification. General characteristics of blood and blood sample analysis.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To comprehend the laboratory rules							
		2	To learn how to work in a team							
		3	To be able to establish testing apparatus							
		4	To be able to evaluate test results and make a report from them							
		5	To be able to identify carbohydrates empirically							
		6	To understand the importance of cholesterol molecule							
		7	To comprehend analyses of urine samples							
		8	To comprehend analyses of blood samples							
		9								
		10								
21	Course Content:									
		Co	purse Content:							
Week	Theoretical		Practice							
1			Reminding laboratory rules, cleaning glass equipments and preparation for tests							
2			Qualitative determination of carbohydrates (Molisch Test, Anthron Test)							

3										Qualitative determination of carbohydrates (Benedict, Picric Acid, Moor Test)									
4										Qualitative determination of carbohydrates (Barfoed Test, Bial Test, Seliwanoff Test, Iodine Test)									
5										Quantitative determination of carbohydrates (Osazone Test) Microscopic examination of crystals									
6										uantita enedict		termina	tion of o	carboh	ydrates	s (Quanti	tative		
7										cam an		er of e	xamina	tion qu	estions	s, genera	ıl		
8										cperime ster)	ents rel	ated to	lipids (Bayer	reactio	n, occurr	ing		
9										cperime rmatior		ated to	lipids (1	free fa	tty acid	s tests, s	soap		
10												rmination		noleste	erol (Lie	bermanr	า-		
11												aminati urine o		rine ar	nd ident	tify a liqu	id		
12										Lipid resolution, defatted milk, searching fatty acids in soaps									
13										Searching for sugar-protein in urine									
14									E	Examination of blood samples									
22		book erials		ferenc	es an	d/or O	ther			d. Doç xtbook		gemen	DERE,	Bioch	emistry	/ laborate	ory		
Activit	es		m#							Numb	er		ition ((hour) Total Work Load (hour)					
Theore	tical	X111					Т.		寸	0			0.00			0.00			
Quiz Practica		abs					1			14			2.00			28.00			
Self stu	idy a	nd pr	epera	tion			1		5	3			5.00			15.00			
Homew										1			14.00)		14.00			
Project: Contrib	S	of T	0 mms ()	/aar\		:	li dil o o	40		000			0.00			0.00			
Field St			<u> </u>	reall	Leam	Inn Ar	IVIIIAS	1()		0			0.00			0.00			
Midter	nexa	ime _F	inal E	xam to	Suc	cess G	rade		50	0.00			3.00			3.00			
Others										0			0.00			0.00			
Final Exams Measurement and Evaluation Techniques Used in the							1			3.00			3.00						
Total Work Load														63.00					
TO24 WECTS://3WORK LOAD TABLE														2.10					
ECTS (Credi	t of th	ne Co	urse												2.00			
25				CON	TRIE	BUTIC	N OI				OUTC		S TO I	PROC	GRAM	IME			
		PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16		
											0			3					

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	1	0	3	1	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	0	5	3	0	2	5	0	5	3	3	2	0	0	0	0
ÖK3	0	0	2	2	0	1	5	0	1	3	2	1	0	0	0	0
ÖK4	0	0	2	2	0	2	5	0	1	2	1	1	0	0	0	0

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