	CLINI	CAL B	BIOCHEMISTRY						
1	Course Title:	CLINICA	L BIOCHEMISTRY						
2	Course Code:	KIM4063	3						
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	le						
5	Year of Study:	4							
6	Semester:	7							
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	ace						
14	Course Coordinator:	Doç. Dr.	ASLI GÖÇENOĞLU SARIKAYA						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	Doç. Dr. agoceno 0224 295 Uludağ Ü Görükle/	Aslı GÖÇENOĞLU SARIKAYA glu@uludag.edu.tr 5 50 73 Jniversitesi Fen-Edebiyat Fakültesi Kimya Bölümü, BURSA 16059						
17	Website:								
18	Objective of the Course:	To introd teach qu paramete	luce how biochemistry is applied in clinical sciences, to alitative and quantitative determination of biochemical ers in the diagnosis and diagnosis of metabolic diseases.						
19	Contribution of the Course to Professional Development:	To idetermine how biochemistry is applied in clinical sciences.							
20	Learning Outcomes:								
		1	Knows the basic concepts of clinical biochemistry						
		2	Knows the molecular structure and properties of samples used in clinical studies.						
		3	Gains knowledge of disorders and control mechanisms that may occur in metabolism.						
		4	Knows the levels of important biochemical parameters of the human body in disease and health.						
		5	Knows the diagnostic methods used routinely in the clinical laboratory and interprets the results.						
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
Week	Theoretical		Practice						
1	Introduction to clinical biochemistry								
2	Blood composition and blood functio	ns							

3	Coag anem	Coagulation system, coagulation disorders, inemia and its causes																	
4	Water, sodium-potassium balance																		
5	Kidne comp	ey fu oun	nctior ds	ns, nor	n-prot	ein nitr	ogen												
6	Urea, deterr	cre mina	atine, ation r	its im netho	portai ds	nce and	d												
7	Uric a conte	acid nt, ι	and d urine a	leterm analys	inatio is	n meth	ods, i	urine											
8	Clinic protei	al di ins	iagno	sis an	d imp	ortance	e of pl	asma											
9	Disor diabe	Disorders of carbohydrate metabolism, diabetes and its types																	
10	Enzyr meas	Enzymes and the importance of their neasurements in clinical biochemistry																	
11	Liver jaund	func ice	ctions	, biliru	bin m	etaboli	sm ar	nd											
12	Iron n	neta	bolisr	n and	anem	nia													
13	Miner	als	and b	one m	etabo	olism													
14	Lipid metabolism disorders, dyslipoproteinemias and atherosclerosis																		
22 Activit	22 Textbooks, References and/or Other Materials:   Activites									illiam J nemistr yokimy vokimy Numb	l. Marsl y, Johr a, Nev a <b>ber</b>	hall, Ste n F. Zilv zat Bab	ephen k va, Tanı ban, Ası Dura	(. Bang ve Te uman ( ition (	inical Klinik an, Klinik Total Work Load (hour)				
TERME	TERMIELEZARNING ACTIVITIES NUMBE									ÉÍGHT			3.00	3.00 42.00					
Practica	als/Lat	bs								0				0.00			0.00		
Self stu	idy and	 d pr	epera	tion			T.			14				4.00			56.00		
Homew	vorks									6				4.00			24.00		
Project	S	10]0	•••											0.00			0.00		
Field St	d Studies									0			0.00			0.00			
Midtern	idterm exams												10.00	10.00			10.00		
Others	Others									0			0.00	0.00			0.00		
Einal E	xams ution d	of Fi	nal E	xam to	Suco	cess G	rade		60	60 <sup>1</sup> 00					15.00				
Total W	Total Work Load														147.00				
Total w	Total work load/ 30 hr														4.90				
ECTS (	ECTS Credit of the Course									5.00									
24	ECT	<b>S /</b>	WOI	RK L	OAD	TAB	LE												
25	25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																		
	Ρ	Q1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	B PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	5		3	4	4	3	4	4	4	5	3	0	0	0	0	0	0		
ÖK2	5		3	4	4	3	4	4	4	5	3	0	0	0	0	0	0		
ÖK3	5		3	4	4	3	4	4	4	5	3	0	0	0	0	0	0		
ÖK4	5		3	4	4	3	4	4	4	5	3	0	0	0	0	0	0		

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