APPLIED BIOCHEMISTRY										
1	Course Title:	APPLIED BIOCHEMISTRY								
2	Course Code:	BYL4050								
3	Type of Course:	Optional								
4	Level of Course:	First Cycle								
5	Year of Study:	4								
6	Semester:	8								
7	ECTS Credits Allocated:	4.00								
8	Theoretical (hour/week):	1.00								
9	Practice (hour/week):	2.00								
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:	Uludağ Üniversitesi Fen-Edebiyat Fakültesi Biyoloji Bölümü Görükle Kampüsü, Nilüfer/BURSA 16059 e-posta: yhikmet@uludag.edu.tr Telefon: 0 224 294 17 92 Uludag University Faculty of Arts and Science Department of Biology Gorukle Campus, Nilufer/BURSA 16059 e-mail: yhikmet@uludag.edu.tr Phone: 0 224 294 17 92								
17	Website:									
18	Objective of the Course:	Aim of the course is to ensure that students understand the clinical biochemistry. The goal of course is understanding of usage areas of biochemistry in the hospital laboratories. Understanding methods of spectrophotometric, colorimetric and recognizing equipment used to these areas. Showing analysis of various organic and inorganic materials, qualitative and quantitative analysis of proteins, physical analysis of urine. Showing blood analysis and methods of taking blood.								
19	Contribution of the Course to Professional Development:									
20	Learning Outcomes:									
		1	To learn devices that ara being used in laboratories							
		2	To understand the usage areas of biochemistry in the hospital laboratories							
			To understand the results of analyses							
			To know how to deal with intended revisals							
		5	To learn teqniques of blood and urine-letting							
			To be able to compare other laboratory practices							
		8								
		9								
		10								

21	Course Content:											
	Course Content:											
Week	Theoretical		ractice									
1	Biochemical test tecniques (qualitativ quantitative tests). Chemical agents, purified water											
2	Methods of spectrophotometric (UV/\NMR, IR Raman, Mass)	√IS,										
3	Methods of chromatographic (HPLC, adsorption, ion exchange, partition, absorption, flame photometry)	gas,										
4	Immunologic and other methods (RIA, Turbidimetry, Nefalometry, conductorefractometry, coagulometry)											
5	Showing devices in different laborato	ries										
6	Excretory system and the formation of analyses of urine (urine-letting and preservation) Macroscopic analysis of (appearance, density, pH, colour, sm	of urine										
7	Microscopic analysis of urine (erythrolleucocytes, epithelial cells, crystals)	ocytes,										
8	Exam and answer of examination que general discussion	estions,										
9	Examination of nitrite, glucose, keton bodies, bilirubin, urobilinogen, urea, u											
Activit				Number	Duration (hour)	Total Work Load (hour)						
Thepre	ld e mogram, leucocyt formula, examir	nation of		14	2.00	28.00						
Practic	als/Labs			0	0.00	0.00						
Self2stu	म्प्रकार्त्वभावाहास्कृत्संभिष्ठाesterol in blood,			4	6.00	24.00						
Homew				1	14.00	14.00						
_	Enzymatical analyses, SGOT, SGPT GGT, CK, Serum phosphatases (Acid	, LDN, d	L	0	0.00							
Field S			_	0	0.00							
4.4	arnylase, lipase n exams Vidnov elegrance tests, etcel englyse			1	3.00	3.00						
Others				8	6.00	48.00						
Final E	Tartharder Dafamanana and Jan Other		_	1	3 00	3.00						
	/ork Load		10	linia Dia ahamiatmi Duai	Dr. Kozum ADAC	120.00						
	ork load/ 30 hr		Ľ	linic Biochemistry, Pro	DI. KAZIIII ARAS	4.00						
	Credit of the Course					4.00						
23 TERM L	Assesment EARNING ACTIVITIES	NUMBE	WEIGHT									
Midtern	n Exam	1 1	30.00									
Quiz		0	0.00									
	work-project	1	20.00									
Final E		1	50.00									
Total		3	1	100.00								
	oution of Term (Year) Learning Activitiess Grade	es to	50.00									
Contrib	ution of Final Exam to Success Grade	9	50.00									
Total			100.00									

Measurem Course	ent ar	nd Eva	aluatio	n Tec	hnique	s Use	d in th	ne								
24 EC	CTS /	WO	RK L	OAD	TAB	LE		•								
25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	PQ14	PQ15	PQ16
ÖK1	1	0	1	4	0	1	4	0	2	1	0	0	0	0	0	0
ÖK2	3	0	1	3	0	1	3	0	2	1	0	0	0	0	0	0
ÖK3	4	0	2	2	0	1	5	0	1	1	0	0	0	0	0	0
ÖK4	4	0	2	3	0	1	5	0	2	1	0	0	0	0	0	0
ÖK5	2	0	2	3	0	1	4	0	2	1	0	0	0	0	0	0
ÖK6	1	0	1	2	0	1	2	0	1	1	0	0	0	0	0	0
			LO: L	earr	ning (Objec	tive	s F	Q: P	rogra	am Qu	alifica	ations	5		
Contrib 1 very low ution Level:				2 low		3	Medi	ium		4 Hig	h		5 Ver	y High	1	