	CELLUI	AR B	IOCHHEMISTRY							
1	Course Title:	CELLUL	AR BIOCHHEMISTRY							
2	Course Code:	BIO6411								
3	Type of Course:	Optional								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	6.00								
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								
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 structures of enzyme and regulations. To explain the importance of enzymes in metabolism.								
19	Contribution of the Course to Professional Development:	Tissues are made up of similar cells Although biochemical reactions are similar, they differ according to cell type. Understanding the functioning of metabolism in relation to cells will cause students to interpret their experiments better.								
20	Learning Outcomes:									
		1	Understanding the properties of tissue-specific cell structure							
		2	Understanding the abilities that the properties of the cell give to the tissue							
		3	Understanding metabolic pathways							
		4	Understanding the difference between cell-specific metabolic pathways							
		5	Understanding the environmental properties of reactions occurring in metabolic pathways							
		6	Relation of biochemical pathways that fail to fulfill their task with diseases							
		7	Learning the enzymes used in diagnosis and treatment in clinical biochemistry							
	<ul> <li>8 Understanding aging, damage, death and canceration of cells that cannot do their job</li> <li>9</li> </ul>									
04	Course Content	10								
21	Course Content:	<u></u>	Nurse Contenti							
M/oold	Theoretical		Durse Content:							
тлеек	Theoretical		Practice							

1	Macro (Memb					of the o	cell											
2		ne macromolecular structure of the cell Aembrane lipids, carbohydrates)																
3		ysiological buffer systems, Energy quirement of the cell																
4	Cell ju conce	Il junction and tissue differentiation, tissue ncept																
5	Organ	s a	nd Sy	stems	6													
6	couple	Receptors (Cell surface receptors, G protein coupled receptors, Enzyme coupled receptors)																
7	Senso	ry r	ecep	tors a	nd pe	rceptio	n											
8	Relation pathwa			recep	otors \	with sig	Inaling	]										
9	Blood	bio	chem	istry														
10		Aidterm exam, Discussion of exam questions, Question and Answer																
11	Muscle	Muscle biochemistry																
12		Bone biochemistry																
13	Neura	Neural biochemistry, Cell cycle																
14	Aging, bioche			nage	occur	rence,	Cell d	eath										
Activites						1	Number				Duration (hour)			/ork nour)				
Theore	tical								IVC	lecula Ilular	r Biolo	gy of th	a Cell, GS 42.00 al Sciences - G. Tripathi					
Practic	als/Lab	s												nces -	0.00			
Self stu	Self study and preperation									14					70.00			
Homew		no							2	2				)	26.00			
Project	S						R			1				)	12.00			
Field S	tudies								(	0						0.00		
Quiditerr	n exam	s					0		0.0	0.00					3.00			
Others	thers								6	6			4.00			24.00		
Final E	<b>xam</b> s						1		60	60100					3.00			
Total V	Vork Lo	ad														180.00		
Cotatrilo	otiotoa	Ы <b>Л E</b>	30nh (`	rear) l	Learn	ing Act	ivities	to	40	.00						6.00		
ECTS																6.00		
Contrib	oution o	Fi	nal E	xam to	o Suc	cess G	rade		60									
Total									10	0.00								
Measu Course		ano	d Eva	luatio	n Tec	hnique	s Use	d in th	ie Ho	mewo	rk, oral	l and cla	assical	exam				
24	ECTS	5/	WO	RK L	OAD	TAB	LE											
25				CON	TRIE	BUTIC	N OI				OUTC ATIO	COME: NS	S TO I	PROC	GRAM	ME		
	PC	21	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16	
ÖK1	2		3	2	2	3	3	2	2	2	2	2	0	0	0	0	0	
ÖK2	4		4	3	2	3	3	3	3	3	3	3	0	0	0	0	0	

Contrib 1 very low ution Level:			2 low			3 Medium			4 High			5 Very High				
LO: Learning Objectives PQ: Program Qualifications																
ÖK8	4	3	4	4	3	4	3	2	3	3	3	0	0	0	0	0
ÖK7	4	4	3	2	3	3	3	3	3	3	3	0	0	0	0	0
ÖK6	4	3	3	4	3	3	3	2	3	3	3	0	0	0	0	0
ÖK5	4	3	4	4	3	4	2	2	3	3	3	0	0	0	0	0
ÖK4	4	4	3	2	3	3	3	3	3	3	3	0	0	0	0	0
ÖK3	4	3	4	4	3	4	3	2	3	3	3	0	0	0	0	0