	REGUL	ATIO	N BY ENZYMES							
1	Course Title:	REGULA	ATION BY ENZYMES							
2	Course Code:	BIO6404								
3	Type of Course:	Optional								
4	Level of Course:	Third Cy	cle							
5	Year of Study:	1								
6	Semester:	2								
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 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 Biyolo 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:									
20	Learning Outcomes:									
		1	He/she can grasp in relation to Enzyme Substrate							
		2	He/she can understand to enzyme inhibitory and inhibitions							
		3	He/she can understand to enzyme activators and activations							
		4	He/she can grasp the roles of high energy compounds in enzyme regulation							
		5	He/she can grasp to structure and function of allosteric enzymes							
		6	He/she can understand the importance of enzyme kinetic in enzymatic regulation							
		7	He/she can learn to regulation of some metabolic pathways							
		8								
		9								
		10								
21	Course Content:									
100	Course Content:									
	Theoretical		Practice							
1	Enzyme Substrate Complex formation									
2	Investigation of enzyme activity cent	er								

3	Enzyme inhibitory and inhibitions									
4	Enzyme activators and activations									
5	The roles of high energy compounds enzyme regulation	in								
6	Allosteric enzymes									
7	Exam and answer of examination que general discussion	estions,								
8	Some important allosteric enzymes									
9	Enzyme kinetics									
10	Feedback mechanism in enzymatic r	egulation								
11	Regulation of metabolism									
12	Control of glycolisis metabolism									
13	Control of glycogen metabolism									
14	Control of protein metabolism									
22	Textbooks, References and/or Other Materials:		Allosteric Regulatory Enzymes, Thomas Traut Enzyme Biocatalysis, Andres Biochemistry, Zubay							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	25.00							
Activit	res		Number	Duration (hour)	Total Work Load (hour)					
Theore	tical	ı	14	3.00	42.00					
Total Practical	als/Labs	<u> </u>	0	0.00	0.00					
	gg Caade preperation	<del>50 10</del>	13	6.00	78.00					
Homew			2	14.00	28.00					
<del>Project</del>	S		100.00	0.00	0.00					
Field S			0	0.00	0.00					
Midter	nement and Evaluation rechniques of p exams	<del>sea iii tiie</del>	1	3.00						
Others			5	6.00	30.00					
Final E	xams		1	3.00 3.00						
Total W	Vork Load				184.00					
Total w	ork load/ 30 hr				6.13					
ECTS (	Credit of the Course				6.00					
25	CONTRIBUTION (	QI	JALIFICATIONS							

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	3	3	4	2	4	3	3	4	3	3	3	0	0	0	0	0
ÖK2	2	3	4	2	4	3	3	3	3	3	2	0	0	0	0	0
ÖK3	2	3	4	2	4	3	3	3	3	3	3	0	0	0	0	0
ÖK4	4	3	4	2	4	3	4	3	4	3	2	0	0	0	0	0

ÖK5	4	4	4	2	4	4	4	4	4	5	3	0	0	0	0	0
ÖK6	5	4	4	2	4	4	4	4	4	5	3	0	0	0	0	0
ÖK7	2	3	4	2	4	3	3	3	3	3	3	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					