ENZYMOLOGY									
1	Course Title:	ENZYMO	DLOGY						
2	Course Code:	MBG4107							
3	Type of Course:	Optional							
4	Level of Course:	First Cyc	cle						
5	Year of Study:	4							
6	Semester:	7							
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 f	face						
14	Course Coordinator:	Prof. Dr.	SEZAİ TÜRKEL						
15	Course Lecturers:	Prof.Dr.	Sezai Türkel						
16	Contact information of the Course Coordinator:	sturkel@	uludag.edu.tr						
17	Website:								
18	Objective of the Course:	kinetics a	n structural features of an Enzymes. To teach enzyme and reaction mechanisms of an enzymes. To teach ion of an enzymes in different industrial fields.						
19	Contribution of the Course to Professional Development:	Learns b	asic biochemsitry of enzyme and enzyme technology						
20	Learning Outcomes:								
		1	Knows enzyme structure and functions						
		2	Knows key features of enzyme reactions						
		3	Knows enzyme classifications						
		4	Knows application fields of an enzymes						
		5							
		6							
		7							
		8							
		9							
		10							
21	Course Content:								
		Co	ourse Content:						
	Theoretical		Practice						
1	Introduction to course and course may historical perspective on the develop enzymology from past to present, distinct the key inventions in the field of enzymology.	ment of scussion							
2	Biochemical features of an enzymes proteins								
3	specificity of enzyme action, reaction coditions of seleceted enzymes	1							

4	Monomeric and oligomeric e	nzvmes and its							
	significance in enzyme cataly								
5	Enzyme catalysis								
6	Basic definitions in enzyme kintroduction to enzyme kineti								
7	Enzyme kinetics II								
8	Control mechanisms of an el coenzymes and cofactors	nzyme activities,							
9	Enzyme inhibition, substrate	analogs							
10	Metabolic significance of allo	steric enzymes							
11	Industrial enzymes I								
12	Industrial enzymes II								
13	Application of enzymes in ph	armaceutical							
14	Reviwe of course contents, o student projects	discussion of							
22	Textbooks, References and/o Materials:	or Other	1- Lecture notes from Prof.Dr. Sezai Türkel 2- Enzymes, Biochemistry, Biotechnology, clinical Chemistry. Authors: Trevor Palmer, Philip Bonner. 3- Biochemistry,						
Activit	tes		Number	Duration (h	our) Total Work Load (hour)				
TEINIVIE	ELAKNING ACTIVITIES	INOMIDE	WEIGHT		` ,				
Theore	etical	R	14	3.00	42.00				
Practic	als/Labs		0	0.00	0.00				
Seli zstu	udy and preperation	0	0 00	7.00	98.00				
Homew			0	0.00	0.00				
Pirogelet		1	60000	0.00	0.00				
Field S			0	0.00	0.00				
	nuteoxaron[sTerm (Year) Learning	g Activities to	40100	15.00	15.00				
Others	exitions of Final Exam to Succe	es Grado	0 60 ₄ 00	0.00	0.00				
		SS Graue	100,00	25.00	25.00				
	Vork Load		Talla a sa a		195.00				
_	rerkenad/n20Evaluation Techn	iques Used in th	e Midterm and final	exam scores determ					
	Credit of the Course ECTS / WORK LOAD T	ABLE			6.00				
25	1	TION OF LE	ARNING OUTCO	OMES TO PROG	RAMME				
	PO1 PO2 PO3 PO4 PO5 PO6 PO7 PO8 PO9 PO1 PO11 PO12 PO1 PO14 PO15 PO16								

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	1	1	3	5	1	1	5	4	5	0	0	0	0	0	0
ÖK2	2	3	2	2	5	1	1	1	5	5	0	0	0	0	0	0
ÖK3	3	1	2	3	5	2	2	5	4	5	0	0	0	0	0	0
ÖK4	1	2	2	2	5	3	3	5	5	5	0	0	0	0	0	0

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