LIPID BIOCHEMISTRY AND MEMMBRANES										
1	Course Title:	LIPID BI	OCHEMISTRY AND MEMMBRANES							
2	Course Code:	BIO6400								
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 f	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 membrane and functions								
19	Contribution of the Course to Professional Development: Fats are molecules that can be stored when taken too much. Fats play a role in the synthesis of many important molecules inside the cell. Another important task of fats is to take part in the structure of the cell membrane. Students who are successful in the course understand the fat metabolism. Better interpret molecular organizations in study subjects									
20	Learning Outcomes:									
		1	He/she can grasp to general properties of lipids							
		2	He/she can classify to lipids							
		3	He/she can define to structure and function of lipid derivatives							
		4	He/she can relative to between lipid metabolism and other metabolisms							
		5	He/she can analyze structure of cell membrane and its general properties							
		6	He/she can grasp to importance of cholesterol into membrane structure							
		7	He/she can grasp to function of membrane lipids							
		8	He/she can grasp the relationship between other molecules and lipids							
		9	He/she can analyze to membrane transports							
		10	He/she can grasp to signal transduction							
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical Practice									

1	General properties of lipids and its classification									
2	Fatty acids, biosynthesis of triglyceric	de								
3	Waxes, phospholipids, sphingolipids, lipoproteins, steroids.	,								
4	Terpenes, prostaglandins, functions apoproteins	of								
5	Digestion and absorption of lipids and oxidations	d its								
6	Structure of cell membrane and its pr	roperties								
7	Membrane lipids and its function									
8	Membrane proteins and its function									
9	Exam and answer of examination qu general discussion	estions,								
10	Membrane carbohydrates and its fun	ction								
11	Differentiation of cell surface									
12	Membrane transports									
13	Organelle membranes									
14	signal transduction									
22	Textbooks, References and/or Other Materials:		Membrane Structure, J.B Finean, R.H. Michell Membrane Structural Biology, Mary Luckey Principles of Biochemistry, Geoffrey Zubay Biochemistry, Thomas M. Devlin							
Activites				umber	Duration (hour)	Total Work Load (hour)				
Theore	tical	R	14	ļ	3.00	42.00				
Practic	als/Labs	1.	0	^	0.00	0.00				
Self stu	udy and preperation	U	0.99		6.00	84.00				
Homew	vorks		2		13.00	26.00				
Froject	<u>x</u> am	1	60 ₀ 0	00	0.00	0.00				
Field S			0		0.00	0.00				
Succes	ution of Term (Year) Learning Activities of Grade	es to	4010	00	3.00	3.00				
Others			7		4.00	28.00				
Final E	Xams	J	070		3.00	3.00				
	Vork Load					186.00				
Masw	rementanghEyaluation Techniques Us	sed in the	Hon	nework, oral and cla	ssical exam	6.20				
ECTS (Credit of the Course					6.00				
25	CONTRIBUTION	OF L EA	DNII	NG OUTCOMES	TO DDOGDAM	IME				
25	CONTRIBUTION			IFICATIONS	TOFROGRAM	IIVIL				

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

ÖK5	3	3	4	3	2	3	4	3	3	4	4	0	0	0	0	0
ÖK6	2	4	4	4	5	4	3	4	4	4	4	0	0	0	0	0
ÖK7	3	4	4	4	5	4	3	4	4	4	4	0	0	0	0	0
ÖK8	4	4	4	4	5	4	4	4	4	4	4	0	0	0	0	0
ÖK9	2	4	4	4	5	4	3	4	4	4	4	0	0	0	0	0
ÖK10	3	4	4	4	5	4	3	4	4	4	4	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			,	2 low		3	Medi	um	4 High			5 Very High				