THE LIPIDS AND LIPID METABOLISM									
1	Course Title:	THE LIP	IDS AND LIPID METABOLISM						
2	Course Code:	VBK6003							
3	Type of Course:	Compuls	sory						
4	Level of Course:	Third Cycle							
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	4.00							
8	Theoretical (hour/week):	2.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	-							
12	Language:	Turkish							
13	Mode of Delivery:	Face to face							
14	Course Coordinator:	Prof. Dr.	MELTEM TANRIVERDİ						
15	Course Lecturers:	-							
16	Contact information of the Course Coordinator:	melcetin@uludag.edu.tr 0532 4875175 U.Ü.Veteriner Fakültesi Biyokimya ABD							
17	Website:								
18	Objective of the Course:	Comprehension of structure and function of lipids which are integral part of membranes are precursors for many molecules that are essential to metabolic pathways and play vital roles in various processes.							
19	Contribution of the Course to Professional Development:	Ability to discuss abnormalities associated with lipids which are essential components of organisms, ability to disseminate knowledge gained about lipids							
20	Learning Outcomes:								
		1	Ability to give general information about lipids						
		2	Ability to define chemical properties of lipids						
		3	Comprehension of differences and associations between different lipid groups						
		4	Comprehension of metabolism of fatty acids and various lipid groups.						
		5	Ability to assess lipid metabolism on the basis of energetics						
		6	Ability to discuss abnormalities associated with lipids which are essential components of organisms.						
		7	Having literature knowledge about lipids						
		8	Ability to disseminate knowledge gained about lipids						
		9							
		10							
21									
10.		Co	ourse Content:						
	Theoretical	11 - 1 - 1	Practice						
1	The description and classification of formulas and properties of saturated unsaturated fatty acids								

2	Physical and chemical properties of facids and neutral lipids	atty							
3	Structures and functional properties of triglycerides and phosphoglycerides	of							
4	Sphingolipids, aliphatic alcohol and w	vaxes							
5	Steroids, zoosterins, phytosterins and mucosterins	t							
6	The structure, physical, chemical pro and functions of cholesterol	perties							
7	The conjugated lipids, structure and f of bile acids	unctions							
8	Plasma lipoproteins and their function	าร							
9	The digestion and absorption of lipids synthesis of fatty acids	s and							
10	The oxidation of fatty acids and ATP	gain							
11	The metabolism of mono- and polyunsaturated fatty acids and eicos	onoids							
12	The metabolism of acylglycerols and sphingolipids								
13	The synthesis, transportation and elir of cholesterol	mination							
14	The transportation and deposition of and metabolic disorders	lipids							
22	Textbooks, References and/or Other Materials:		Biochemistry (5th edition) Berg JM., 2002. Metabolism at a Glance (At a Glance) D. K. Granner, J. G. Salway, 2004. Medical Biochemistry John W. Baynes, Marek H. Dominiczak, 2007 Biyokimya Figen Gürdöl, Evin Ademoğlu, 2006. Biyokimya L. Kalaycıoğlu, B. Serpek, M. Nizamlioğlu, N. Başpınar, A. M. Tiftik, 2000						
23	Assesment								
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT						
Midtern	n Exam	0	0.00						
Quiz		0	0.00						
Home v	work-project	0	0.00						
Final E	xam	1	100.00						
Total		1	100.00						
Contribution of Term (Year) Learning Activities to Success Grade			0.00						
Contrib	oution of Final Exam to Success Grade)	100.00						
Total			100.00						
Measu	rement and Evaluation Techniques Us	sed in the	Final Exam						
24	ECTS / WORK LOAD TABLE								
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Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	3.00	42.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	4	4.00	16.00
Final Exams	1	30.00	30.00
Total Work Load			116.00
Total work load/ 30 hr			3.87
ECTS Credit of the Course			4.00

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	3	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	3	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	0	4	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	2	3	4	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	2	3	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	4	0	0	0	3	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	4	2	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib 1 very low ution Level:			2	2 low		3 Medium			4 High			5 Very High				