GENERAL BIOCHEMISTRY										
1	Course Title:	GENER	ERAL BIOCHEMISTRY							
2	Course Code:	VBK5001								
3	Type of Course:	Compuls	ory							
4	Level of Course:	Second	Cycle							
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	3.00								
9	Practice (hour/week):	0.00								
10	Laboratory (hour/week):	3								
11	Prerequisites:									
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Prof. Dr. NAZMIYE GÜNEŞ								
15	Course Lecturers:	Prof. Dr. Nazmiye Güneş								
16	Contact information of the Course Coordinator:	Prof. Dr. Nazmiye Güneş ngunes@uludag.edu.tr 0 224 2941282 U.Ü.Veteriner Fakültesi Biyokimya ABD								
17	Website:									
18	Objective of the Course:	To be able to comprehend the basic biochemistry knowledge including biological molecules, carbohydrates, lipids, proteins, enzymes, minerals, and their classification, physical and chemical properties and functions.								
19	Contribution of the Course to Professional Development:	Learning basic biochemistry information								
20	Learning Outcomes:									
		1	Being able to comprehend the metabolic events that are fundamental to the functioning of living organisms							
		2	Identifying the carbohydrates, lipids and proteins that provide the energy needs of the organism and form the building blocks of cells							
		3	To understand the properties, classification and functions of enzymes and minerals, to evaluate the defects that occur in the case of mineral deficiency and excess							
		4	To be able to comprehend the information that will form the basis of other courses in Veterinary Biochemistry graduate education							
		5	To be able to transfer the knowledge acquired on basic biochemistry subjects in written and oral presentation							
		6								
		7								
		8								
		9								
		10								
21	Course Content:	-								
Week	I heoretical Practice									

1	The definition and scope of Biochem ,biological function and importance o solutions and features	istry f water,								
2	Carbohydrates, general description, classification, formulations,D and L is	somers								
3	Asymmetric carbon atoms, optical ac hemiacetal structure, specific rotatior Osazon formation, the effect of monosaccharides on the acid and all reduction and oxidation products of s	ctivity, n, kali, sugars								
4	Monosaccharides, disaccharides, an properties, maltose and trehalose-typ homo and heteropolysaccharides,	d their be bonds,								
5	Description and characteristics of the classification, saturated, unsaturated essential fatty acids, chemical and ph properties	e lipids, and nysical								
6	Carrying glycerol lipids, neutral fats, and chemical characteristics	physical								
7	Phosphoglycerides, alcohols and wa terpenes, carotinoids, bile acids	xes,								
8	Definition and importance of proteins acids and their classification and form	, amino nulas.								
9	Physical properties of amino acids, b nature, chemical reactions, essential acids	ipolar amino								
Activit	es		Number	Duration (hour)	Total Work Load (hour)					
Thepre	Netleic acids, DNA and RNA structu	re,	14	3.00	42.00					
Practica	als/Labs		14	3.00	42.00					
Self_stu	Winerals, macrominerals, microelemo	ents,	1	8.00	56.00					
Homew	vorks		0	0.00	0.00					
Project	Enzymes and their importance, struc	ture and	0	0.00	0.00					
Field St	tudies		0	0.00	0.00					
Midtern	mechanisms, enzyme nomenclature.		0	0.00	0.00					
Others			0	0.00	0.00					
Final E	allosteric enzymes, coenzymes		1	10.00	10.00					
Total W	/ork Load				150.00					
Total w	dvl ateridl/s30 hr		Byokimya, Kalaycıoğlu	_, Šerpek B.,Nizam	150GQ					
ECTS (Credit of the Course				5.00					
			Tablolarla Biyokimya I-II, Ası, T., Nobel Tıp Kitapları Dağıtım,Ankara,1999. Fundamentals of Biochemistry, 2nd Ed., D. Voet, Judith G. Voet, John Wiley & Sons Inc., 2006. Biochemistry, D. Voet, Judith G. Voet, John Wiley & Sons Inc., 3rd Ed., 2004. Biyokimya Bayşu N.B.,Bayşu N. Güneş Tıp Kitabevleri, Ankara, Türkiye 2008							
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 Exam						1		10	100.00							
Total								10	100.00							
Contribution of Term (Year) Learning Activities to Success Grade							to	0.0	0.00							
Contribution of Final Exam to Success Grade							10	100.00								
Total							10	100.00								
Measurement and Evaluation Techniques Use Course					s Use	d in th	ne Ex	Exams will be done in classical writing.								
24 ECTS / WORK LOAD TABLE																
25	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	5	2	1	1	1	5	1	0	0	0	0	0	0	0	0	0
ÖK2	5	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0
ÖK3	4	2	1	1	1	1	1	0	0	0	0	0	0	0	0	0
ÖK4	5	1	5	1	1	5	1	0	0	0	0	0	0	0	0	0
ÖK5	1	1	1	1	5	1	1	0	0	0	0	0	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contrib ution Level:	1 \	1 very low 2 low				3 Medium		4 High		5 Very High						