

THE FUNCTIONS OF LIVER AND KIDNEY

1	Course Title:	THE FUNCTIONS OF LIVER AND KIDNEY	
2	Course Code:	VBK 6014	
3	Type of Course:	Optional	
4	Level of Course:	Third Cycle	
5	Year of Study:	1	
6	Semester:	2	
7	ECTS Credits Allocated:	2.50	
8	Theoretical (hour/week):	1.00	
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:	Yrd.Doç.Dr. SAİME GÜZEL	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	ngunes@uludag.edu.tr 0535 9553078 U.Ü.Veteriner Fakültesi Biyokimya ABD	
17	Website:		
18	Objective of the Course:	Comprehension of functions of the liver and kidney in which many biochemical processes occur and which are vital to continuation of life, and their normal and abnormal states and function tests related to them.	
19	Contribution of the Course to Professional Development:		
20	Learning Outcomes:		
		1	Ability to comprehend genral anatomical and physiological structures of the liver and kidney
		2	Ability to comprehend the role and significance of the liver in metabolic processes
		3	Ability to comprehend the role of the liver in physiological processes.
		4	Being able to define liver function tests and interpret related disorders.
		5	Ability to comprehend functions and significance of the kidney
		6	Ability to define kidney function tests and interpret related disorders
		7	Being able to reach novel findings about functions, disorders and diseases of the liver and kidney.
		8	Ability to disseminate knowledge gained about functions of the liver and kidney in various settings
		9	
		10	
21	Course Content:		
		Course Content:	
Week	Theoretical	Practice	

1	Anatomy of the liver and properties			
2	Metabolic functions of the liver			
3	Detoxification and protective functions of the liver			
4	Secretion functions of the liver; secretion of bilirubin glucuronides and bile formation, bile salts			
5	Storage functions of the liver; glikogen, iron, various vitamins and other metals			
6	Hematological functions of the liver			
7	Circulatory functions of the liver			
8	Functional anatomy of the kidneys			
9	Glomerular filtration			
10	Functions of the tubuli			
11	Control of kidney actions			
12	Extracorporeal dialysis ve hemoperfusion			
13	Retention of substances necessary for normal bodily functions and regulation of osmotic pressure			
14	Regulation of acid-base homeostasis, removal of excess metabolites and foreign substances			
22	Textbooks, References and/or Other	Biochemistry department course note		
Activites		Number	Duration (hour)	Total Work Load (hour)
Theoretical		14	14.00	14.00
Practicals/Labs		0	0.00	0.00
Self study and preperation		14	14.00	14.00
Homeworks		1	5.00	5.00
Projects		0	0.00	0.00
Field Studies		0	0.00	0.00
TERM LEARNING ACTIVITIES		NUMBER	WEIGHT	
Midterm exams		0	0.00	0.00
Others		1	4.00	4.00
Final Exams		0	10.00	10.00
Quiz		0	0.00	0.00
Total Work Load				75.00
Total work load/ 30 hr		1	100.00	2.50
Final Exam				
ECTS Credit of the Course				2.50
Contribution of Term (Year) Learning Activities to Success Grade		0.00		
Contribution of Final Exam to Success Grade		100.00		
Total		100.00		
Measurement and Evaluation Techniques Used in the Course				
24	ECTS / WORK LOAD TABLE			

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK2	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK3	0	5	4	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK4	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK5	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ÖK6	0	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0
ÖK7	0	0	0	0	5	0	0	0	4	0	0	0	0	0	0	0
ÖK8	0	0	0	0	0	0	0	0	0	0	4	3	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	1 very low			2 low			3 Medium			4 High			5 Very High			