BLOOD PHYSIOLOGY AND APPLICATIONS										
1	Course Title:	BLOOD	PHYSIOLOGY AND APPLICATIONS							
2	Course Code:	VFZ6001								
3	Type of Course:	Compulsory								
4	Level of Course:	Third Cycle								
5	Year of Study:	1								
6	Semester:	1								
7	ECTS Credits Allocated:	5.00								
8	Theoretical (hour/week):	2.00								
9	Practice (hour/week):	2.00								
10	Laboratory (hour/week):	0								
11	Prerequisites:	none								
12	Language:	Turkish								
13	Mode of Delivery:	Face to face								
14	Course Coordinator:	Dr. Ögr. Üyesi Füsun AK SONAT								
15	Course Lecturers:	Dr. Öğr. Üyesi Füsun Ak Sonat								
16	Contact information of the Course Coordinator:	fusunak@uludag.edu.tr +90 224 294 1229 Uludag University Faculty of Veterinary Medicine Department of Physiology Gorukle Bursa Turkey 16059								
17	Website:									
18	Objective of the Course:	The aim of the course is to explain the blood physiology and experiments and to interpret the issues related to blood.								
19	Contribution of the Course to Professional Development:	increasing students' knowledge and experience about physiology of blood.								
20	Learning Outcomes:									
		1	To be able to explain blood structure and it's composition							
		2	To be able to describe the blood cells							
		3	To be able to explain coagulation and clotting factors							
		4	To be able to explain bleeding							
		5	To be able to describe anemia							
		6	To be able to describe blood groups							
		7	To be able to describe blood-related diseases							
		8	To be able to explain the transfer of blood in animals							
		9								
		10								
21	Course Content:									
		Co	ourse Content:							
Week	Theoretical		Practice							

1	Blood cells, plasma,serum Anticoagulant substances Interactions between bleeding and vir	tamin K	To provide information on issues related to blood sampling in animals							
2	Erythrocytes Red blood cell production Life span of red blood cells		Introduction of tools and equipment used in blood count, give information about the dilutions melts							
3	Hemoglobin Compounds Methemoglobin		Determination the amount of hemoglobin							
4	Anemia, causes of formation, types The amount of blood Blood storage organs		Hematocrit							
5	Myoglobin Breakdown of red blood cells		Red blood cell count							
6	White blood cell White blood cell types		Staining Blood Smear and Formula of leucocytes							
7	Tissue macrophage system Life span of white blood cells									
8	Thrombocytes Coagulation	bocytes Determination of the clotting time with capillary tub method								
Activit	ies		_	Number	Duration (hour)	Total Work Load (hour)				
Theore	Fibrinolysis			14	2.00	28.00				
Practic	als/Labs			14	2.00	28.00				
Self stu	dyhænidepretærettingndisorder (hemophi	lia)		14	1.00	14.00				
Homev	vorks			2	10.00	20.00				
Project	Plasma proteins, Blood groups and F	Rh		0	0.00	0.00				
Field S	tudies			0	0.00	0.00				
Midterr 13	Rood groups in animals		Ь	0 etermination of osmati	0.00 c resistance of red	0.00 blood cells				
Others				3 15.00 45.00						
Fi <b>rlal</b> E	<b>Glos</b> d transfer in animals		Determine rate of sedimarsation of red blood selfs							
Total V	Vork Load					150.00				
Total w	ork load/ 30 hr				····	5.00				
ECTS	Credit of the Course					5.00				
			<ul> <li>2- GUYTON, AC. HALL JE. Textbook of Medical Physiology, Saunders, 2005.</li> <li>3- YILMAZ, B. Fizyoloji. Medisan Yayınevi, Ankara, 2000.</li> <li>4- YAMAN, K. Fizyoloji. Güven Mücellit Matbaacılık Ltd.</li> <li>Şti. Bursa, 2009.</li> <li>5- Swenson, M. J. Duke's Physiology of Domestic Animals, 10. Ed. Cornell University, Rsess, Ithaca New York, 1984.</li> <li>6- Frandso RD, Wilkw WL, Fails AD, Anatomy and Physiology of Farm Animals 7th Edition, USA, 2009.</li> </ul>							
23	Assesment									
TERM I		NUMBE R								
Iviluterr		U	0.00							

Quiz					0	)	0.0	0.00									
Home work-project						2		25.	25.00								
Final Exam						1		75.	75.00								
Total						3		10	0.00								
Contribution of Term (Year) Learning Activities to Success Grade							25.	25.00									
Contribution of Final Exam to Success Grade							75.00										
Total								10	100.00								
Measurement and Evaluation Techniques Used							d in th	n the Classical exam									
24 ECTS / WORK LOAD TABLE																	
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	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0	
ÖK2	5	5	4	4	4	5	4	4	5	5	4	4	0	0	0	0	
ÖK3	5	5	4	4	4	4	4	4	5	5	4	4	0	0	0	0	
ÖK4	5	4	4	4	4	5	4	4	4	4	4	4	0	0	0	0	
ÖK5	5	5	5	5	5	4	5	5	4	4	5	5	0	0	0	0	
ÖK6	4	4	4	4	4	3	4	4	4	4	4	4	0	0	0	0	
ÖK7	4	4	4	4	4	5	4	4	4	4	4	4	0	0	0	0	
ÖK8	3	3	4	4	4	3	5	3	4	4	4	4	0	0	0	0	
LO: Learning Objectives PQ: Program Qualifications																	
Contrib 1 very le ution Level:		ow		2 low		3	Medi	lium 4 High		5 Very High							