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 f	ace						
14	Course Coordinator:	Prof. Dr.	FAHRÜNISA CENGİZ						
15	Course Lecturers:								
16	Contact information of the Course Coordinator:	fnisa@uludag.edu.tr +90 224 294 1271 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:								
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	urse 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		White blood cell count					
8	Thrombocytes Coagulation		Determination of the clotting time with capillary tube method					
9	Internal mechanism (Intrinsic) External mechanism (extrinsic)		Determination of bleeding time					
10	Thrombus formation in vessel Fibrinolysis		Hemolysis test					
11	Pausing the clot Inherited bleeding disorder (hemophi	lia)	Measurement of the diameter of red blood cells					
12	Blood plasma, Blood plasma compor Plasma proteins, Blood groups and R system		Determination of blood groups					
13	Blood groups in animals		Determination of osmatic resistance of red blood cells					
14	Blood transfer in animals		Determine rate of sedimantation of red blood cells (Sedimentation)					
22	Textbooks, References and/or Other Materials:		1- NOYAN, A. Yaşamda ve Hekimlikte Fizyoloji, Meteksan Ankara, 2005. 2- GUYTON, AC. HALL JE. Textbook of Medical Physiology, Saunders, 2005. 3- YILMAZ, B. Fizyoloji. Medisan Yayınevi, Ankara, 2000. 4- YAMAN, K. Fizyoloji. Güven Mücellit Matbaacılık Ltd. Şti. Bursa, 2009. 5- Swenson, M. J. Duke's Physiology of Domestic Animals, 10. Ed. Cornell University, Rsess, Ithaca New York, 1984. 6- Frandso RD, Wilkw WL, Fails AD, Anatomy and Physiology of Farm Animals 7th Edition, USA, 2009.					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	0	0.00					

Quiz	0	0.00				
Home work-project	2	25.00				
Final Exam	1	75.00				
Total	3	100.00				
Contribution of Term (Year) Learning Activities Success Grade	es to	25.00				
Contribution of Final Exam to Success Grade	Э	75.00				
Total		100.00				
Measurement and Evaluation Techniques Us Course	sed in the					
24 ECTS / WORK LOAD TABLE						

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	2.00	28.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	2	10.00	20.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	3	15.00	45.00
Final Exams	1	15.00	15.00
Total Work Load			150.00
Total work load/ 30 hr			5.00
ECTS Credit of the Course			5.00

25		CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS														
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1	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 low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					