		PHYS	IOLOGY I						
1	Course Title:	PHYSIO	LOGY I						
2	Course Code:	VET100	9						
3	Type of Course:	Compuls	sory						
4	Level of Course:	First Cyc	cle						
5	Year of Study:	1							
6	Semester:	1							
7	ECTS Credits Allocated:	3.00							
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:	Prof. Dr.	FAHRÜNISA CENGİZ						
15	Course Lecturers:	Prof. Dr. Fahrünisa CENGİZ Prof. Dr. Nurten GALİP Prof. Dr. Cenk AYDIN Doç. Dr. Murat YALÇIN Yrd. Doç. Dr. Füsun AK SONAT							
16	Contact information of the Course Coordinator:	fnisa@uludag.edu.tr +90 224 294 1271 Uludağ Üniv. Veteriner Fak. Fizyoloji Anabilim Dalı Bursa Turkey 16059							
17	Website:								
18	Objective of the Course:	Body flui Blood ph	gical concepts and cell physiology. ids and buffer systems. nysiology. nd muscle physiology						
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	General physiological concepts						
		2	Cell organels and physiology						
		3	Body fluids						
		4	Buffer systems and their working process						
		5	General blood physiology						
		6	Red blood cells and their role						
		7	White blood cells and their role						
		8	Thrombosite and coagulation						
		9	Nerve physiology						

		10	Musele physiology								
		10	Muscle physiology								
21	Course Content:										
		Co	urse Content:								
Week	Theoretical		Practice								
1	Introduction of Physiology, basic con physiology, diffusion, facilitated diffus active transport, osmosis and osmoti pressure, determination of osmotic p osmolarity, suspension, emulsion, im pinositosis and phagositosis terms	sion, c ressure,	Introduction of the laboratory equipments.								
2	Cell physiology, protoplasma, water a proteins, lipids, carbonhydrate, nucle DNA, RNA, rRNA, tRNA, mRNA, nucle sex chromatine, endoplasmic reticulu apparatus, ribosoms, lizozoms, mitho peroxisom, centrosom, plastids, vacumembrane.	ic acids, cleus, im, golgi ocondria,	Hematocrit and determination of hemoglobin.								
3	Body fluids and tampons, fluid compart of body, composition of body fluids, bicarbonate, phosphate, protein and hemoglobin buffer systems.	artments	Counting erythrocytes.								
4	Blood physiology, production of eryth anemias, blood cells, plasma, serum anticoagulants, hemorrhage and Vit. correlation, erythrocyte production, re of erythrocyte numbers, erythrocyte of	, K egulation	Counting leukocytes								
Activit	es		Number	Duration (hour)	Total Work Load (hour)						
Th g ore	kocytes, platelets, neutrophils,		Measurement of erythro	ஆ ⊛ sedimentation	28 00						
Practica	als/Labs		14	2.00	28.00						
Self stu	യാൻയുള്ളിയില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്ലായില്	sic and	Measurement of erythro	ტrediameter.	0.00						
Homew	vorks		0	0.00	0.00						
Project	coagulation time,blood plasma	1 01	0	0.00	0.00						
Field S			0	0.00	0.00						
Midtern	isystem, erythrobiastosis retails, blood I exams Iin animals, determination of blood gro	d groups oup and	1	17.00	17.00						
Others			0	0.00	0.00						
Final E	laymention, lymph composition	n and	Determination of clotting	tirnecand blood gro	₩ \$90						
Total W	/ork Load				90.00						
To tg al w	Wkusædର୍ଡ଼ିଶ୍ରଖଳ, muscle cell, skeletal	muscle,	Percentage of differentia	Il leukocyte counts.	3.00						
ECTS (Credit of the Course				3.00						
10	Visceral smooth muscle, vascular sm muscle, muscle contraction, muscle metabolism	ooth	Erythrocyte osmotic fragility test, experimental hemolysis in erythrocytes.								
11	Nervous system, neuron, the conduction potential along membrane, classification and characteristics of neuron fibre	erve	Neuromuscular applications.								
12	Degeneration and regeneration of ne synapsis, inhibiting and stimulating syneurotransmitters		Examination of reflexes in decerebrated frog.								

13	Structure of spinal cord, spinal cord r mechanism, nuclei of the brain stem pons and midbrain functions, brain st reticular formation, thalamus, hypoth pyramidal and extrapramidal systems system, cerebellum and motor contro adaptation in receptors	, medull em alamus, s, limbic	Observation of the effect of shock and different stimulation in spinal frog (P Group A)							
14	Divisions of the autonomic nervous s structural comparision of autonomic of functions of autonomic divisions, stru- and function of the sympathetic divis- autonomic nervous system, structure function of the parasympathetic divis- autonomic nervous system	divisions, cture on of and	Observation of the effect of shock and different stimulation in spinal frog (P Group B).							
22	Textbooks, References and/or Other Materials:		1- CUNNINGHAM JG.,KLEIN, BG. Textbook of Veterinary Physiology, Saunders, 2007. 2- MARIEB, EN. Human Anatomy & Physiology Laboratory Manual, Pearson, Benjamin Cummings, 2006. 3- NOYAN, A. Yaşamda ve Hekimlikte Fizyoloji, Meteksan Ankara, 2005. 4- GUYTON, AC. HALL JE. Textbook of Medical Physiology, Saunders, 2005. 5- YILMAZ, B. Fizyoloji. Medisan Yayınevi, Ankara, 2000. 6- YAMAN, K. Fizyoloji. Ezgi kitabevi, Bursa, 2004.							
23	Assesment									
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT							
Midtern	n Exam	1	40.00							
Quiz		1	10.00							
Home v	work-project	0	0.00							
Final E	xam	1	50.00							
Total		3	100.00							
	ution of Term (Year) Learning Activities S Grade	es to	50.00							
Contrib	ution of Final Exam to Success Grade)	50.00							
Total			100.00							
Measu Course	rement and Evaluation Techniques Us	sed in the								
24	ECTS / WORK LOAD TABLE									

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS															
	PQ1	PQ1 PQ2 PQ3 PQ4 PQ5 PQ6 PQ7 PQ8 PQ9 PQ1 PQ11 PQ12 PQ1 PQ14 PQ15 PQ16														PQ16
ÖK1	5	4	3	3	4	5	4	4	4	4	4	4	0	0	0	0
ÖK2	5	5	4	4	4	5	5	5	5	5	5	5	0	0	0	0
ÖK3	5	5	4	4	5	5	5	5	5	5	5	5	0	0	0	0
ÖK4	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK5	5	5	5	5	5	5	5	5	5	5	5	5	0	0	0	0
ÖK6	5	4	5	5	5	5	5	5	5	5	5	5	0	0	0	0

ÖK7	5	5	4	5	5	5	4	4	5	5	5	5	0	0	0	0
ÖK8	5	5	4	4	5	5	4	4	5	5	5	5	0	0	0	0
ÖK9	5	4	3	3	4	5	4	4	4	4	4	4	0	0	0	0
ÖK10	5	5	4	4	4	5	5	5	5	5	5	5	0	0	0	0
	LO: Learning Objectives PQ: Program Qualifications															
Contrib 1 very low ution Level:			2	2 low		3	Medi	um	4 High			5 Very High				