CARDIOVASCULAR SYSTEM PHYSIOLOGY

1	Course Title:	CARDIOVASCULAR SYSTEM PHYSIOLOGY	
2	Course Code:	VFZ5007	
3	Type of Course:	Compulsory	
4	Level of Course:	Second Cycle	
5	Year of Study:	1	
6	Semester:	1	
7	ECTS Credits Allocated:	2.00	
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:	Prof. Dr. Murat YALÇIN	
15	Course Lecturers:		
16	Contact information of the Course Coordinator:	muraty@uludag.edu.tr +90 224 294 1228 Uludağ Üniversitesi Veteriner Fakültesi Fizyoloji Anabilim Dalı Görükle Bursa 16059	
17	Website:		
18	Objective of the Course:	This course focuses on component of cardiovascular system like heart and vessels and their role.	
19	Contribution of the Course to Professional Development:	As a veterinarian-physiologist, provides an approach to vitality events in terms of the importance of the cardiovascular system.	
20	Learning Outcomes:		
		1	General Anatomy of the Heart
		2	Electrical Activity of the Heart
		3	Mechanical Events of the Cardiac Cycle
		4	Cardiac Output and Its Control
		5	Patterns and Physics of Blood Flow
		6	Arteries and Arterioles
		7	Capillaries
		8	Veins
		9	
		10	
21	Course Content:		
	Course Content:		
Week	Theoretical	Practice	
1	Location of the heart; The heart as a pump		

2	Heart valves; Heart walls; Cardiac muscle; Pericardial sac	
3	Pacemaker activity; Action potential of cardiac contractile cells	
4	Electrocardiography	
5	Electrical, pressure, and volume relationships during diastole and systole; Heart sounds	
6	Determinants of cardiac output; Control of heart rate	
7	Control of stroke volume	
8	Blood flow, pressure, resistance relationships; Blood vessel types	
9	Role of arteries as a pressure reservoir; Arterial pressure	
10	Arterioles as major resistance vessels	
11	Role of arterioles in distributing cardiac output	
12	Capillary exchange	
13	Role of veins as a blood reservoir	
14	Venous return	

22	Textbooks, References and/or Other Materials:	1- KAY, I . Introduction to Animal Physiology, UK, 1998. 2- Frandso RD, Wilkw WL, Fails AD, Anatomy and Physiology of Farm Animals 7th Edition, USA, 2009 3- Reece Wo. Functional Anatomy and Physiology of Domestic Animals 3rd Edition, USA, 2005. 4- NOYAN, A. Fizyoloji Ders Kitabı 15. Baskı, Ankara, 2004.
23	Assesment	

TERM LEARNING ACTIVITIES	**NUMBER**	**WEIGHT**
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	1	25.00
Final Exam	1	75.00
Total	2	100.00
Contribution of Term (Year) Learning Activities to Success Grade		25.00
Contribution of Final Exam to Success Grade		75.00
Total		100.00
Measurement and Evaluation Techniques Used in the Course		Classical written exam

24	**ECTS / WORK LOAD TABLE**

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	0	0.00	0.00
Self study and preperation	14	1.00	14.00
Homeworks	1	2.00	2.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	2	10.00	20.00
Final Exams	1	10.00	10.00
Total Work Load			60.00
Total work load/ 30 hr			2.00
ECTS Credit of the Course			2.00

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	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK2	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK3	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK4	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK5	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK6	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK7	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
ÖK8	5	4	4	4	5	5	4	4	5	4	5	5	0	0	0	0
LO: Learning Objectives PQ: Program Qualifications																
Contribution Level:	**1 very low**		**2 low**			**3 Medium**			**4 High**			**5 Very High**				