

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Blood and Circulatory System Physiopathology						
Course Code	urse Code VFZ534 Couse Level Second Cycle (Master's Degree)		Degree)				
ECTS Credit 2	Workload 50 (F	Hours) Theory	Theory 1		0	Laboratory	0
Objectives of the Course	To be make comprehended congenital and acquired disorders about production and function of erythrocytes, leukocytes, and platelet. To teach of mechanical and electrical activity of the heart. To teach problems about blood circulation such as pressure, resistance, flow rate						
Course Content To comprehend regarding disorders of the construction and destruction of red blood cell, hemoglobinopathies, disorders related to white blood cell production and function, platelets and clo mechanism abnormalities, changes in the heart's electrical and mechanical activity, blood pressure pulse rate, circulation, the shock, ischemia and edema							
Work Placement	N/A						
Planned Learning Activities	ds Explanation Problem Sol		tion), Discussi	on, Case St	udy, Individual Stu	dy,	
Name of Lecturer(s)			7				

Assessment Methods and Criteria								
Method	Quantity	Percentage (%)						
Midterm Examination	1	38						
Final Examination	1	60						
Quiz	2	1						
Term Assignment	1	1						

Reco	mmended or Required Reading
1	Reece W.O. (2008) Dukes Veteriner Fizyoloji Cilt I ve II, Onikinci Baskı (Türkçe Çeviri). Ed: Yıldız S. Medipres, Malatya
2	Guyton AC, Hall JE (2001) Tıbbi Fizyoloji Onuncu baskı (Türkçe Çeviri). Ed: Çavuşoğlu H. Nobel Tıp Kitabevi, İstanbul
3	Noyan A. (2003). Yaşamda ve Hekimlikte Fizyoloji. 13. baskı, Meteksan-Ankara
4	Randall D., Burggren W., French K, Fernald R., (1997). Eckert Animal Physiology. Mechanisms and Adaptations. 4th Ed., New York
5	G.C. Whittow et al. (1998). Sturke's Avian Physiology
6	Willmer P., Stone G., Johnston I. (2005). Environmental Physiology of Animals. 2nd Ed. Blackwell Publishing
7	Despopoulos A., Silbernagl S. (2003). Color Atlas of Physiology 5th Ed. Thieme, Stuttgart New York
8	Vander et al. (2001). Human Physiology: The Mechanism of Body Function, 8th Ed. The McGraw-Hill Companies
9	Harvey J.W. (2001). Atlas of Veterinary Hematology. W.B. Saunders Company
10	Weiss D.J., Wardrop J. (2010). Schalm's Veterinary Hematology. 6th Ed. Blackwell Publishing Ltd

Week	Weekly Detailed Cou	rse Contents				
1	Theoretical	Erythrocyte production and destruction				
2	Theoretical	Anemias				
3	Theoretical	Polysitemia				
4	Theoretical	Construction and destruction of hemoglobin, hemoglobinopathies				
5	Theoretical	Structure and function of leukocytes and related disorders				
6	Theoretical	Construction and destruction of platelet				
7	Theoretical	Mechanism of coagulation and its abnormalities				
8	Theoretical	Midterm				
9	Theoretical	The heart's electrical activity, electrocardiogram, and cardiac arrhythmias				
10	Theoretical	Heart sounds and murmurs				
11	Theoretical	Shock and its compensation mechanisms				
13	Theoretical	Regulation of blood pressure, hypertension and hypotension				
14	Theoretical	Pulse types				
15	Theoretical	Presentations				



Workload Calculation							
Activity	Quantity		Preparation	Duration	Total Workload		
Lecture - Theory	14		0.5	1	21		
Assignment	2		2	1	6		
Term Project	1		8	1	9		
Quiz	2		1	1	4		
Midterm Examination	1		2	1	3		
Final Examination	1		6	1	7		
	50						
	2						
*25 hour workload is accepted as 1 ECTS							

Learn	ning Outcomes						
1	To comprehend the definition of anemia and its caus	es and types					
2	To comprehend of leukocyte types and its functional	disorders					
3	To learn abnormalities of coagulation mechanisim						
4	To comprehend disorders which can be showed duri	ng electrical and mec	hanical	activity			
5	To understanding regulation of pulse and blood press mechanisms of all of them	sure, causes of shocl	k and is	chemia and c	occurred compo	ensation	
6	To have knowledge about microcirculation, lymph cir	culation disorders and	d edem	a formation			

Progr	ramme Outcomes (Physiology (Veterinary Medicine) Master)
1	Understands and defines the interdisciplinary interaction with the associated fields
2	Uses theoretical and practical information learned in the education
3	Creates solution proposals by using background education
4	Combines and interprets the information from different disciplines, and creates solution proposals and scientific information to contribute the solution process, when needed
5	Involves in professional organizations and institutions related with the educational background
6	Takes responsibility for individual and group work, and do the assignments in line with the skills
7	Communicates with the professionals out of the field when it is necessary, and contributes to the solution as a team member
8	Understands the production and publishing methods of scientific information
9	Determines the source and the type of information that is needed related with the field and chooses the activities that s/he wants to participate, by using his/her critical thinking abilities that is developed in the education
10	Excels technological devices both for professional and social purposes
11	Compiles any kind of data related with the field (field observations, produced scientific information etc.) and analyzes and interprets the results according to the aims of the research
12	Determines the environmental health rules and applies them for prevention
13	Applies the knowledge gained in professional level with the awareness of the needs of the region and the country, and develops a defense capability
14	Conceptualizes the phenomena and the events related with the field, studies scientific methods and techniques, interprets results; analyzes and hypothesizes methods in accordance with the results and designs solution or treatment alternatives addressing the problems
15	Follows up the updates of information in the field by using all kinds of sources (scientific information, legislations etc.), and uses when needed

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5	L6
P1	2	2	2	2	2	2
P2	4	4	4	4	4	4
P3	4	4	4	4	4	4
P4	2	2	2	2	2	2
P5	2	2	2	2	2	2
P6	1	1	1	1	1	1
P7	1	1	1	1	1	1
P8	2	2	2	2	2	2
P9	2	2	2	2	2	2
P10	3	3	3	3	3	3



P11	4	4	4	4	4	4
P12	1	1	1	1	1	1
P13	2	2	2	2	2	2
P14	2	2	2	2	2	2
P15	3	3	3	3	3	3

