

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Blood and Circulatory Syste	em					
Course Code	VHE623	VHE623 Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 5	Workload 125 (Hours)	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	Objectives of the Course The aim of the course is to teach blood plasma, blood cells; erythrocytes, leukocytes, platelets, hemopoiesis. Circulatory System: The heart, blood and lymphatic vascular systems.						
Course Content Blood: Blood plasma, blood cells; erythrocytes, leukocytes, platelets, hemopoiesis. Circulatory System: The heart, blood and lymphatic vascular systems.					System:		
Work Placement	N/A						
Planned Learning Activities	Explanation (Pre	esenta	tion), Demonst	tration, Discus	sion, Individual S	Study	
Name of Lecturer(s)							

Assessment Methods and Criteria					
Method	Quantity	Percentage (%)			
Midterm Examination	1	40			
Final Examination	1	60			

Recor	Recommended or Required Reading				
1	Özer, A. (2010). Veteriner Özel Histoloji, Nobel Yayın Dağıtım, Ankara				
2	Banks, W.J. (1986). AppliedVeterinaryHistology, Williams&Wilkins, U.S.A.				
3	Kierszenbaum, A. L. (2007) Histologyand Cell Biology. An introductiontoPathology, Mosby, Elsevier, Kanada.				

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Blood plasma
	Practice	Mammalian blood
2	Theoretical	Erythrocytes
	Practice	Mammalian blood
3	Theoretical	Granulocytes
	Practice	Mammalian blood
4	Theoretical	Agranulocytes
	Practice	Poultry blood
5	Theoretical	Platelets
	Practice	Poultry blood
6	Theoretical	Hemopoiesis
	Practice	Poultry blood
7	Intermediate Exam	Midterm
9	Theoretical	Elastic arteries
	Practice	Elastic arteries
10	Theoretical	Muscular arteries
	Practice	Muscular arteries
11	Theoretical	Veins
	Practice	Veins
12	Theoretical	Capillary vessels,
	Practice	Capillary vessels,
13	Theoretical	Lymphatic vessels
	Practice	Lymphatic vessels
14	Theoretical	Discussion the article
	Practice	Article presentation
15	Theoretical	Article Discussion
	Practice	Article presentation



Workload Calculation							
Activity	Quantity	Preparation	Duration	Total Workload			
Lecture - Theory	14	0	2	28			
Lecture - Practice	14	0	2	28			
Midterm Examination	1	28	1	29			
Final Examination	1	39	1	40			
Total Workload (Hours) 125							
[Total Workload (Hours) / 25*] = ECTS							
*25 hour workload is accepted as 1 ECTS							

Learn	ing Outcomes				
1	The student learns features of blood cells.				
2	The student learns functions of blood cells.				
3	The student learns hemopoiesis.				

4 The student gains the heart.

5 The student gains the blood and lymphatic vascular systems.

Programme Outcomes (Histology and Embryology (Veterinary Medicine) Doctorate)

- 1 Gains expert knowledge on the function and basic histological features of cells, tissues and systems in animals.
- 2 Gains expert knowledge on the stages of embryonal and fetal development in both mammals and birds.
- Based on his/her training during the Master of Science program, he/she has in depth knowledge in the field of histology/embryology as well as in areas related to his/her area of expertise.
- 4 Using basic knowledge gained during the undergraduate and master of science program, develops ,critically evaluates and tests novel ideas in his/her area of expertise.
- 5 Endowed with theoretical and practical knowledge as for the scientific research and methodology to be able to conduct an independent research project.
- Has theoretical knowledge concerning skills (leadership, entrepreneurship, ability to reach information technologies, organization, industrial correspondence etc.). Knows laws and regulations concerning his/her area of expertise and related subjects.
- 7 Determines and uses laboratory equipment and consumables in a histology laboratory. Has the ability to solve problems in his/her area of expertise.
- 8 Has the ability to design and develop scientific methodology concerning new developments in his/her area of expertise. Has the ability to put established methods in use to tackle current problems in his/her area of expertise.
- 9 Designs and conducts an independent research project on his/her own.
- 10 Critically evaluates and reaches to a synthesis of new ideas in his/her area of expertise and related fields.
- 11 Uses and develops modern technologies in his/her area of expertise towards the industry in a systematic and critical manner.
- Performs his/her expertise with the recognition of the rights and responsibilities obtained with the completion of doctorate program in histology/embryology.
- ls able to break down new and immature ideas into simple components and suggest alternative solutions by using his/her ability to recognize possible relationships among these components.
- If the need arises, designs an interdisciplinary research project, forms a team, leads and finalizes the research project to solve an old or a new problem in the field of histology/embryology.
- Attends to activities such as congresses, panels, symposiums, workshops, seminars, journal clubs in his/her area of expertise, shares information in his/her area of expertise and contributes to the solution of a problem by interacting with experts in other fields.
- Expands a growing body of information in his/her area of expertise by publishing scientific articles in national and international journals.
- 17 Is in recognition of taking professional and ethical responsibilities.
- Develop new ideas and methods that has the potential to ignite social and cultural progress or add values to the information society by using practical and theoretical knowledge gained throughout his/her training and his/her skill to work independently and to take responsibilities.
- Makes the concept of life-long learning a matter of principle and recognizes the fact that evidence-based information is the most important gain of education.
- Provides information and manages information exchanges on issues of public and animal health in committees with the aim of defining and solving a problem using his/her expertise.

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



	L1	L5
P1	5	5
P3	4	4
P4	3	3
P7	4	4
P9	3	3
P12	3	3
P17	2	2

