AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Clinical Hematology								
Course Code	VFZ623		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	6	Workload	150 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	To understand hematology and to intrepret diagnostic and prognostic process								
Course Content	Blood cells, blood types, transfusion, anemia, leucomia, coagulation								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Case Study, Problem Solving								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	38
Final Examination	1	60
Quiz	4	1
Term Assignment	1	1

Recommended or Required Reading	
1	Harvey J.W. (2001). Atlas of Veterinary Hematology. W.B. Saunders Company.
2	Sterling T. Bennett S.T., Lehman C.M., Rodgers G.M. (2007). Laboratory Hemostasis. A Practical Guide for Pathologists. Springer Science Business Media, LLC.
3	Weiss D.J.,Wardrop J. (2010). Schalm's Veterinary Hematology. 6th Ed. Blackwell Publishing Ltd.
4	Hoffbrand A.V., Catovsky D., Tuddenham E.G.D. (2005). Postgraduate Haematology Fifth Ed. Blackwell Publishing.

Week	Weekly Detailed Course Contents	
1	Theoretical	Red blood cells
	Practice	The circumstances of blood samples storage
2	Theoretical	The pathologic symptoms of erythrocytes
	Practice	Formula leucoycyte
3	Theoretical	White blood cells
	Practice	Prepare of blood smear
4	Theoretical	
	Practice	
5	Theoretical	
	Practice	
6	Theoretical	
	Practice	
7	Theoretical	Blood types
	Practice	The determination of nuclear ındex and plotting of Arneth curve
8	Theoretical	Midterm
	Practice	Midterm
9	Theoretical	
	Practice	
10	Theoretical	Blood transfusion and clinical using
	Practice	White blood cells counting
11	Theoretical	Hemostasis and related disorders
	Practice	Red blood cells counting

12	Theoretical	Hemostasis and related disorders-II
	Practice	Retyculocyte counting and coating
13	Theoretical	Clinical appearance in anemias
	Practice	Eosinophil counting
14	Theoretical	Anemia inpretion-I
	Practice	Cells counting in poultry
15	Theoretical	Coagulation and cuogulation disturbance
	Practice	Trombocyte counting
16	Final Exam	Final Examination
17	Final Exam	Final examination

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	1	2	42
Assignment	4	2	1	12
Term Project	1	30	1	31
Quiz	4	1	1	8
Midterm Examination	1	8	1	9
Final Examination	1	19	1	20
			Total Workload (Hours)	150
			[Total Workload (Hours) / 25*] = **ECTS**	6

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	
2	
3	
4	
5	
6	

Programme Outcomes *(Physiology (Veterinary Medicine) Doctorate)*

1	Has a deep and broad knowledge about the field and the interdisciplinary area related with the field through the achievements gained in undergraduate and professional levels
2	Has the knowledge to create original ideas, analyze them and develop definition/product/diagnosis methods by using the knowledge gained in undergraduate and/or professional experience, when needed
3	Is knowledgeable about theories and practices in methodological and scientific research methods to run an independent research
4	Excels in the laboratory, clinical and similar fields by using the theoretical and practical information gained in former education, and has the ability to create solutions in related fields
5	Designs and develops scientific methodology for the advanced level/newly defined/emerged problems about the field
6	Excels in the known scientific methods in the field for the advanced level/ newly defined/emerged problems
7	Designs unique researches and implements independently
8	Analyzes, synthesizes and evaluates the new ideas in related fields by using critical thinking
9	Plans, creates teams and carries out the interdisciplinary research projects in order to create solutions to the known/newly defined problems
10	Joins to congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions in different disciplines, and exchanges information with the other professionals to contribute to the solutions
11	Broadens the borders of scientific information by publishing scientific articles in national and/or international peer-reviewed journals
12	Creates new ideas and methods to contribute to the technological, social and cultural progress, or to help the development of information society by using the theoretical, practical, independent research, abilities responsibly
13	Designs and implements social projects with the awareness of creating an information society
14	Compiles and interprets any type of data (field observation, scientific knowledge etc.) in accordance with the aims
15	Develops and uses strategies about related topics with the field

16	Implements and defends institutional and practical information and abilities in accordance with the needs of the country and the world, and changes when necessary
17	Follows up and uses all the updates about the field (scientific information, legislations etc.), and has the qualification to change them
18	Adopts lifelong learning as a principle and acknowledges that the information gained through research is the most valuable gain

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	3	3	3	4	3	3
P2	3	3	3	4	3	3
P3	1	1	1	1		
P4	4	4	4	4	4	4
P5	4	4	4	4	4	4
P6	4	4	4	4	4	4
P7	2	2	2	2	2	2
P8	3	3	3	3	3	3
P9	1	1	1	1		
P10	3	3	3	3	3	3
P11	4	4	4	4	4	4
P12	2	2	2	2	2	2
P13	1	1	1	1	1	1
P14	5	5	5	5	5	5
P15	5	5	5	5	5	5
P16	5	5	5	5	5	5
P17	5	5	5	5	5	5
P18	5	5	5	5	5	5