



AYDIN ADNAN MENDERES UNIVERSITY
GRADUATE SCHOOL OF HEALTH SCIENCES
VETERINARY PHYSIOLOGY
PHYSIOLOGY (VETERINARY)
PHYSIOLOGY (VETERINARY) MASTER
COURSE INFORMATION FORM

Course Title	Lactation Physiology								
Course Code	VFZ527	Course Level		Second Cycle (Master's Degree)					
ECTS Credit	2	Workload	50 (Hours)	Theory	1	Practice	0	Laboratory	0
Objectives of the Course	To comprehend of physiological and pathophysiological processes during lactation								
Course Content	Development of the breasts, the beginning of lactation, reduction of milk, milk composition								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, Case Study, Individual Study, Problem Solving								
Name of Lecturer(s)									

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

Recommended or Required Reading	
1	Eckert Animal Physiology. Mechanisms and Adaptations. 4th Ed., New York
2	Reece W.O. (2008) Dukes Veteriner Fiziyojji Cilt I ve II, Onikinci Baskı (Türkçe Çeviri). Ed: Yıldız S. Medipres, Malatya
3	Environmental Physiology of Animals. 2nd Ed. Blackwell Publishing

Week	Weekly Detailed Course Contents	
1	Theoretical	Structure of breast
2	Theoretical	Development and controlling of breast
3	Theoretical	Physiological changes in lactation
4	Theoretical	Lactation
5	Theoretical	Formation of milk
6	Theoretical	Secretion of milk
7	Theoretical	Reduction of milk
8	Theoretical	Midterm
9	Theoretical	Colostrum
10	Theoretical	Absorption of immunoglobulins
11	Theoretical	Milk composition
12	Theoretical	The termination of lactation
13	Theoretical	Most common diseases of the breast
14	Theoretical	Neonatal isoerythrolysis
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	10	1	11
Quiz	2	1	1	4
Midterm Examination	1	1	1	2



Final Examination	1	5	1	6
Total Workload (Hours)				50
[Total Workload (Hours) / 25*] = ECTS				2
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	To be informed about formation of milk and its secretion from glands
2	Hormones about milk formation
3	To learn the mechanisms of neural and hormonal control during milk secretion
4	To be informed about newborn disease
5	To be informed about breast diseases

Programme Outcomes (Physiology (Veterinary) 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
P1	2	2	2	2	2
P2	3	3	3	3	3
P3	3	3	3	3	3
P4	2	2	2	2	2
P5	2	2	2	2	2
P6	1	1	1	1	1
P7	1	1	1	1	1
P8	2	2	2	2	2
P9	2	2	2	2	2
P10	2	2	2	2	2
P11	4	4	4	4	4
P12	1	1	1	1	1
P13	3	3	3	3	3
P14	1	1	1	1	1
P15	3	3	3	3	1

