



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

Course Title	Reproductive System and Its Functions								
Course Code	VFZ525	Course Level			Second Cycle (Master's Degree)				
ECTS Credit	4	Workload	100 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To be comprehended the importance of the reproductive system at the basis of physiological mechanisms								
Course Content	Functional anatomy of the male and female reproductive organs, spermatogenesis and oogenesis, sex hormones								
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	Krohmer R.W.(2005). Your Body How It Works. The Reproductive System. Chelsea House, Publishing, New York
2	Morel D. (2003). Equine Reproductive Physiology, Breeding and Stud Management. CABI Publishing, London
3	Reece W.O. (2008) Dukes Veteriner Fizyoloji Cilt I ve II, Onikinci Baskı (Türkçe Çeviri). Ed: Yıldız S. Medipres, Malatya
4	Guyton AC, Hall JE (2001) Tıbbi Fizyoloji Onuncu baskı (Türkçe Çeviri). Ed: Çavuşoğlu H. Nobel Tıp Kitabevi, İstanbul
5	Noyan A. (2003). Yaşamda ve Hekimlikte Fizyoloji. 13. baskı, Meteksan-Ankara
6	Randall D., Burggren W., French K, Fernald R., (1997). Eckert Animal Physiology. Mechanisms and Adaptations. 4th Ed., New York
7	G.C. Whittow et al. (1998). Sturke's Avian Physiology
8	Willmer P., Stone G., Johnston I. (2005). Environmental Physiology of Animals. 2nd Ed. Blackwell Publishing

Week	Weekly Detailed Course Contents	
1	Theoretical	Reproductive organs of farm animals
2	Theoretical	Reproductive organs in poultry
3	Theoretical	Stages of spermatogenesis and sperm development
4	Theoretical	Stages of oogenesis and oocyte formation
5	Theoretical	Comparison of spermatogenesis and oogenesis
6	Theoretical	Fertilization
7	Theoretical	The structure of the female reproductive system
8	Theoretical	Midterm
9	Theoretical	Roles in the development of the reproductive system of male reproductive hormones
10	Theoretical	Roles in the development of the reproductive system of female reproductive hormones
11	Theoretical	Some developmental changes in the uterus and ovary
12	Theoretical	The effects of seminal vesicles, the prostate and the bulbourethral glands on fertilization -I
13	Theoretical	The effects of seminal vesicles, the prostate and the bulbourethral glands on fertilization -II
14	Theoretical	Presentations
15	Theoretical	Discussion



Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	2	42
Assignment	2	4	1	10
Term Project	1	24	1	25
Quiz	2	1	1	4
Midterm Examination	1	7	1	8
Final Examination	1	10	1	11
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To learn about the structure of male and female reproductive organs in animals
2	To learn the physiological events and processes of spermatogenesis
3	To learn the physiological events and processes of oogenesis
4	To learn about roles and importance of male reproductive hormones affected in the development of reproductive system
5	To learn about roles and importance of female reproductive hormones affected in the development of reproductive system
6	To be able to developmentally compare of male and female reproductive system

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	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	3	3	3	3	3	3
P6	1	1	1	1	1	1
P7	1	1	1	1	1	1
P8	3	3	3	3	3	3
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	4	4	4	4	4	4
P14	3	3	3	3	3	3
P15	3	3	3	3	3	3

