



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Gametogenesis							
Course Code		VST502		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	101 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about producing of male and female gametes, the precess of transmission of gametes in male and female genital tract, factors effecting gametogenesis							
Course Content		Spermatogenesis, oogenesis, transmission of gametes in male and female genital tracts, mitosis and meiosis in gametes							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Individual Study					
Name of Lecturer(s)		Prof. Ahmet CEYLAN, Prof. İlker SERİN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Assignment	3	20

Recommended or Required Reading

1	Alaçam E.: Evcil Hayvanlarda Reprodüksiyon, Suni Tohumlama, Doğum ve İnfertilite. First Edition,Konya,1994
2	Hafez E.S E., Hafez B. (2000) Reproduction in Farm Animals. Lippincott Williams & Wilkins, Philadelphia
3	Feldman E. C., Nelson R. W. (2004) Canine and Feline Endocrinology and Reproduction. Saunders, St. Louis
4	Pineda M. H., Dooley M. P. (2003) McDonald's Veterinary Endocrinology and Reproduction, Iowa State Press, New York

Week	Weekly Detailed Course Contents	
1	Theoretical	Physiology of gametes in embryonic and fetal term
2	Theoretical	Mitosis and meiosis
3	Theoretical	Anatomy and histology of testis
4	Theoretical	Endocrine mechanism of spermatogenesis
5	Theoretical	Spermiositogenesis
6	Theoretical	Spermatogenesis
7	Theoretical	Transmission of sperm in genital tract
8	Intermediate Exam	Midterm exam
9	Theoretical	Anatomy and histology of ovaries
10	Theoretical	Oogenesis and Endocrine mechanism of oogenesis
11	Theoretical	Folliculogenesis
12	Theoretical	Failures in oogenesis and folliculogenesis
13	Theoretical	Endocrine control of oogenesis and folliculogenesis
14	Theoretical	Fertilization
15	Theoretical	zygote
16	Final Exam	Final term exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	1	0	10	10
Reading	14	0	2	28
Midterm Examination	1	14	1	15



Final Examination	1	18	2	20
Total Workload (Hours)				101
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to be able to define gametogenesis
2	to be able to name the formation of gametes in male and female genital tract, mitosis and meiosis in gametes
3	to be able to use this knowledge in practise
4	Spermatogenesis, oogenesis, transport of gametes in genital tract
5	Hormonal control of gametogenesis.

Programme Outcomes (Reproduction and Artificial Insemination (Veterinary Medicine) Master)

1	To get knowledge about Reproduction and Artificial Insemination with theoretical lessons and practise
2	To get knowledge about reproductive systems of animals, reproductive organs and functions of these organs
3	To get knowledge about reproductive physiology of male and female animals, reproductive endocrinology, synchronisations and reproductive health
4	To get experience about diagnosis of oestrus, proper insemination time and method
5	To get experience to join reproductive scientific research, to follow scientific advances own field. To transfer all these experiences and knowledge to students and society
6	To gain ability to reach scientific references, to plan an experiment, study this experiment, evaluation of experimental results and compare this result similar experimental result
7	To get experience about cryopreservation and short term storage of sperm, examination of sperm
8	To get knowledge about reproductive biotechnology (artificial insemination, in-vitro fertilisation, freezing of sperm and embryo, embryo transfer, laparoscopic insemination). To Contribute and advance to science
9	To get knowledge about infertility, diagnosis of infertility, treatment of infertility in domestic animals especially commercial farms

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

	L1	L2	L3
P1	5	5	2
P2	5	4	3
P3	4	4	4
P4	3	2	3
P5	3	2	4
P6	2	4	4
P8	4	3	3

