

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Examination of the Sperm						
Course Code	VST506	Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5	Workload 125 (Hours)	Theory	/ 2	Practice	2	Laboratory	0
Objectives of the Course To give information about inspection methods in order to determine all features forming fertility and their evaluation in terms of fertility							
Course Content	spermological examinations	; /					
Work Placement	N/A						
Planned Learning Activities and Teaching Methods			nation (Presenta ual Study	ition), Experime	ent, Demons	tration, Discussion	١,
Name of Lecturer(s)	Lec. Niyazi KÜÇÜK						

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

Recommended or Required Reading				
1	Alaçam E.: Evcil Hayvanlarda Reprodüksiyon, Suni Tohumlama, Doğum ve İnfertilite. First Edition,Konya,1994			
2	Evans G., Maxwell WMC. (1987) Salamon's Artificial Insemination of Sheep anLearn possible complications of early and late inseminationsd Goats. Butterworths, Sydney			
3	Hafez E.S.E., Hafez B. (2000) Reproduction in Farm Animals, Lippincott Williams & Wilkins, Philadelphia			

Week	Weekly Detailed Cour	se Contents				
1	Theoretical	Benefits of sperm examination				
	Practice	Laboratory practise				
2	Theoretical	Macroscopic examination of sperm				
	Practice	Collection of sperm from different species and macroscopic examination of sperm				
3	Theoretical	Examination of sperm motility				
	Practice	Microscopic examination				
4	Theoretical	Detection of sperm concentration				
	Practice	Morphological examination				
5	Theoretical	Morphological examination of sperm				
	Practice	Morphological examination				
6	Theoretical	Sperm staining procedures				
	Practice	Staining procedures for sperm				
7	Theoretical	Detection of Live – dead sperm rate				
	Practice	Staining procedures for sperm				
8	Practice	Staining procedures for sperm				
	Intermediate Exam	Midterm exam				
9	Theoretical	Detection and agglutination of other cells in semen				
	Practice	Laboratory practise				
10	Theoretical	Physical and chemical examination of sperm				
	Practice	Laboratory practise				
11	Theoretical	Biochemical examination of sperm				
	Practice	Laboratory practise				
12	Theoretical	Microbiological examination of sperm				
	Practice	Taking sample from semen for microbiological analyses				
13	Theoretical	Sperm parameters according to different species				
	Practice	Microscopic perspective of sperm				
14	Theoretical	Examination of frozen thawed sperm				



14	Practice	Examination of frozen thawed sperm		
15	Theoretical	Determination of DNA fragmentations in sperm		
	Practice	Determination of DNA fragmentation in sperm		
16	Final Exam	Final term exam		

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	2	28	
Lecture - Practice	14	0	2	28	
Reading	14	0	2	28	
Midterm Examination	1	14	1	15	
Final Examination	1	25	1	26	
	125				
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcom	nes
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1	to be able to define macroscopic and microscopic sperm examination
2	to be able to comprehend evaluation of fertilization ability of sperm
3	to be able to analyse microbiological, physical and chemical examination of sperm
4	to be able to identify the determination of sperm DNA integrity
5	To have knowledge about the methods of detection of spermatozoon membrane damage

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
- 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
- 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
- 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	L4
P1	5	4	4	4
P3	4			
P5	5	5	5	5
P6	4	4	4	4
P7	5	4	5	5
P8	5	4	4	4
P9	4	4	4	4

