

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Reproduction	ction in Dogs and Artificial Insemination						
Course Code	VST633	VST633		Couse Level		Third Cycle (Doctorate Degree)		
ECTS Credit 4	Workload	100 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give inform	To give information about reproduction and artificial insemination in dogs						
Course Content		General information about reproduction, importance of artificial insemination, collection of sperm, preparation of catheter, preparation of bitch for artificial insemination, application of artificial insemination						
Work Placement N/A								
Planned Learning Activities and Teaching Methods Explanation ((Presenta	ation), Demonst	ration, Disc	ussion		
Name of Lecturer(s)								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)	
Midterm Examination	1	40	
Final Examination	1	60	

Recommended or Required Reading

1	Bearden H.J., Fuquay J.W., Willard S.T. (2004) Applied Animal Reproduction. Pearson Prentice Hall, New Jersey
2	Feldman E. C., Nelson R. W. (2004) Canine and Feline Endocrinology and Reproduction. Saunders, St. Louis
3	Pineda M. H., Dooley M. P. (2003) McDonald's Veterinary Endocrinology and Reproduction, Iowa State Press, New York

Week	Weekly Detailed Cour	Course Contents			
1	Theoretical	Puberty and sexual maturity in dogs			
2	Theoretical	Reproductive physiology in dogs			
3	Theoretical	Sexual cycle in dogs			
4	Theoretical	Hormonal mechanism of sexual cycle in dogs			
5	Theoretical	Detection of oestrus in dogs			
6	Theoretical	Benefits of artificial insemination in dogs			
7	Theoretical	The most proper artificial insemination time in dogs			
8	Intermediate Exam	Midterm exam			
9	Theoretical	Vaginal smear			
10	Theoretical	Collection of sperm in dogs by massage technique			
11	Theoretical	Artificial insemination with fresh semen			
12	Theoretical	Freezing of dog semen			
13	Theoretical	Preparation of artificial insemination catheter			
14	Theoretical	Artificial insemination with frozen thawed sperm			
15	Theoretical	Induction of ovulation after insemination			
16	Theoretical	Final term exam			

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	0	1	14	
Assignment	2	0	8	16	
Reading	14	0	2	28	
Midterm Examination	1	15	1	16	
Final Examination	1	25	1	26	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
25 hour workload is accepted as 1 ECTS					

Learr	Learning Outcomes					
1	1 To get information about physiology of reproduction and reproductive hormones in dogs					
2	Physiological mechanism of reproductive hormones					
3	Importance of artificial insemination in dogs					
4	Artificial insemination in dogs					
5	Control of reproduction in dogs					

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

Flogi	annie Outcomes (Reproduction and Artificial Insemination (veterinary Medicine) Doctorate)
1	To get knowledge about reproduction and artificial insemination with theoretical lessons and practise, also to get knowledge about reproductive systems of animals, reproductive organs and functions of these organs
2	Hormonal mechanisms of oogenesis and spermatogenesis, movements of oocyte and sperm cells in the genital tracts, factors affecting spermatogenesis and oogenesis, blood-testis barrier, functions of epidydymidis, capacitation and acrosome reaction of sperm cells, fertilization (fusion, activation, penetration)
3	To get knowledge about reproductive anatomy of male and female animals, reproductive endocrinology, , embryonic development of gonads, prenatal development, development-regression and luteolysis of corpus luteum, histological, anatomical and physiological structure of uterus, fertilization, early embryonic development, luteal mechanism, implantation, involution of uterus post partum, sperm migration in cervical mucus, oogenesis, acrosomal enzymes, fusion, activation, penetration, syngamy and polispermy and reproductive health
4	To get ample information about the structure and functions of hormones related to reproduction and diagnosis of oestrus, proper seeding time and gain experience in the selection of the technique in domestic animals
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	Systematic of special examination, morphological and functional examination of genital organs, microbiological examination of sperm cells, ultra structure characteristics of sperm cells, factors affecting sperm quality, spermatological examination, Short term storage and cryopreservation of sperm cells, cryopreservation methods, factors affecting the success of thawing sperm cells, manipulations applied before or after thawing
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
10	To make a research about reproduction and artificial insemination, this can contribute and advance to science
11	To get experience about to write a national or international article about reproduction and artificial insemination, this can contribute and advance to science

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

	L1	L2	L3	L4
P1	4	4	4	
P2	4	4		
P3	4	4		
P4	5			
P8			4	4

