

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Sexual Cycles in Domestic Ani							
Course Code VDJ503		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5	Workload 125 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course Teaching puberty, sexual cycles, hormonal mechanisms of sexual cycles and optimum insemination time in domestic animals					ation time		
Course Content	uberty, reprod	ductive cyc	les, hormonal	mechanisms	in domestic anim	als are	
Work Placement N/A							
Planned Learning Activities	Explanation	(Presentat	tion), Discussion	on, Individual	Study		
Name of Lecturer(s) Lec. Cevdet PEKER							

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

Reco	mmended or Required Reading
1	Alaçam, E. (2002) Doğum ve İnfertilite, Medisan Yayınları, Ankara.
2	Noakes, D.E., Parkinson, T.J., England, G.C.W. (2001) Artur's Veterinary Reproduction and Obstetrics, W.B. Saunders Comp., Philadelphia.
3	Hafez, E.S.E. (1993) Reproduction in Farm Animals, Lea & Febiger, Philadelphia.
4	Dinç, D.A. (2008) Ultrason fiziği ve ineklerde reprodüktif ultrasonografi, Pozitif Matbaacılık Ltd. Şti, Ankara.
5	Johnston, S.D., Kustritz, M.V.R., Olson, P.N.S. (2001) Canine and Feline Theriogenoiogy, W.B. Saunders Comp., Philadelphia.
6	Kaymaz M, Fındık M, Rişvanlı A, Köker A. Çiftlik hayvanlarında Doğum ve Jinekoloji, 3. Baskı, Medipres matbaacılık, Malatya, 2019.
7	Kaymaz M, Fındık M, Rişvanlı A, Köker A. Kısraklarda Doğum ve Jinekoloji, 3. Baskı, Medipres matbaacılık, Malatya, 2019.
8	Kaymaz M, Fındık M, Rişvanlı A, Köker A. Köpek ve Kedilerde Doğum ve Jinekoloji, 3. Baskı, Medipres matbaacılık, Malatya, 2019.

Week	Weekly Detailed Cour	se Contents
1	Theoretical	Puberty and factors affecting puberty
2	Theoretical	Estrus cycle and its stages
3	Theoretical	Estrus cycle and its stages in cattle
4	Theoretical	Estrus detection in cattle
5	Theoretical	Estrus cycle and its stages in mares
6	Theoretical	Estrus cycle and stages in ewe and nanny goats
7	Theoretical	Ovarian follicular wave dynamics
8	Intermediate Exam	Mid-term exam
9	Theoretical	Estrous cycle and its stages in bitches
10	Theoretical	Estrus cycle and its stages in queen
11	Theoretical	Vaginal cytology in the bitch and the queen
12	Theoretical	Estrus cycle and its stages in camels
13	Theoretical	Estrus cycle and its stages in water buffaloes
14	Theoretical	Laboratuvar hayvanlarında seksüel siklus ve evreleri
15	Theoretical	General review
16	Final Exam	Final exam

Workload Calculation					
Activity	Quantity	Preparation	Duration	Total Workload	
Lecture - Theory	14	3	2	70	
Reading	16	0	1	16	



Individual Work	16	0	1	16	
Midterm Examination	1	9	2	11	
Final Examination	1	10	2	12	
Total Workload (Hours)					
[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS					

Learning Outcomes

- 1 Learning onset of puberty and effecting factors in domestic animals.
- 2 Having knowledge of stages and visual signs of estrus cycle in domestic animals
- 3 Learning hormonal mechanisms of estrus cycle in domestic animals
- 4 Learning detection of estrus and determining the optimum insemination time in domestic animals
- 5 Learning estrus cycle in laboratory animals

Programme Outcomes (Obstetrics and Gynecology (Veterinary Medicine) Master)

- Acquiring basic principles and establishing crucial links in the theory and practical aspects in the field of Obstetrics and Gynecology. Getting grip on the animal's reproductive systems, organs, structures and their functional features.
- Reproductive anatomy of the female animals, embriyonic development of the gonads, maturation, cellular and hormonal mechanisms of oogenesis and mechanisms of ovulation and transport of ovum. Sexual cycles of the female animals and their species related differences.
- Being informed about the fertilisation, early embriyonic development, implantation and pregnancy. Fetal development, intrauterine life and detection of risked pregnancies. Learning to deal with the the issues of abortion. Knowing the hormonal and obstetrical aspects of normal parturition. Recognizing dystocia cases and being avare of predispozing and effective etiology of dystocia. Learning the initial approach to dystocia cases and learning to choose the appropriate intervention. Learning to apply the obstetrical methods.
- Being informed about the puerperium and postpartum periods, learning the physiology and diagnosis and treatment of pathological conditions (metabolic, infectious and traumatic) during the transition period. Learn the ability to perform intrauterine applications. Acquiring right approaches on handling mother and the offspring in the puerperal period. Learning about the care and diseases of the newborn.
- Gaining experience about the fertility parameters in the farm animals. Being informed about the diagnosis and therapy of infertility cases and management of them in the herd scale. Learning necessary precautions and management practices for establishing the reproductivity as a branch of herd health. Being informed about the effects of nutrition and management on reproduction.
- Acquiring the knowledge of the hormones and their clinical applications, affecting reproduction directly or indirectly. Learning methods of sexual synchrnisation and appropriate timing of insemination or mating. Being able to administer medical and operative contraseptive methods to female animals. Being informed about assisted reproductive techniques.
- Administering specialized systematic examination of female animals, performing morphologic and functional examination of the female genitalia and mammary glands thus learning the diagnosis of hormonal, infectious, traumatic and tumoral diseases. Gaining skills in surgical therapy or/and elective gynaecological-oncological, udder and teat operations of the related diseases.
- Having knowledge of the etiology, diagnosis and therapy of mastitis. Learning necessary precautions and management practices to control mastitis incidence in farm animals particularly in dariy enterprises. Having knowledge of etiology, diagnosis and therapy of circulatory disorders and infectious and non-infectious skin diseases.
- Being informed about frequently used anesthetic methods and anesthetic agents, analgesics, antibiotics, liquid therapy and other medical agents. Gaining skills in solving problems due to reproductive emergency cases, being able to make definitive diagnosis by clinical symptomatic data and administer appropriate therapy in various animal species.
- Learning methods and principles of scientific research, learn and acquire scientific ethics concept. Being avare of current developments by surveying and analyzing scientific literature. Gaining skills in interpreting classical knowledge of the scientific area to the students and the community.
- Being able to plan, conduct and accomplish an original scintific study that can deliver novelty, develop a new scientific method or adopt a known method to a new area and present the results as a scientific article, in the area of obstetrics and gyaecology.

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	5	5	5	5	4
P2	5	5	5	5	5
P5	3	3	3	5	
P6	3	3	5	5	3
P7		4		4	3

