



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Pregnacy Diagnosis in the Companion Animals							
Course Code		VDJ621		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	6	Workload	150 (<i>Hours</i>)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Pregnancy diagnosis in pet animals, know the stage of pregnancy, diagnostic methods and its implementation							
Course Content		Diagnostic methods of pregnancy in pet animals and duration of pregnancy							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Demonstration, Discussion, Case Study, Individual Study, Problem Solving					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Assignment	4	20

Recommended or Required Reading

1	Alaçam, E. (2002) Doğum ve İnfertilite, Medisan Yayınları, Ankara.
2	Johnston, S.D., Kustritz, M.V.R., Olson, P.N.S. (2001) Canine and Feline Theriogenoiogy, W.B. Saunders Comp., Philadelphia.
3	Noakes, D.E., Parkinson, T.J., England, G.C.W. (2001) Artur's Veterinary Reproduction and Obstetrics, W.B. Saunders Comp., Philadelphia.
4	Dinç, D.A. (2008) Ultrason fiziği ve ineklerde reproduktif ultrasonografi, Pozitif Matbaacılık Ltd. Şti, Ankara.
5	J. Kevin KEALY, H. Mc ALLISTER (2005) Diagnostic Radiology and Ultrasonography of the Dog and Cat.
6	Kahn, W. (1994) Veterinary reproductive ultrasonography

Week	Weekly Detailed Course Contents	
1	Theoretical	Physiology of pregnancy
	Practice	Examined of embryogenesis under the microscope
2	Theoretical	Physiology of pregnancy
	Practice	Examined of embryogenesis under the microscope
3	Theoretical	Diagnostic methods of pregnancy
	Practice	Examined of pregnancy with palpation
4	Theoretical	Diagnosis of pregnancy in queens
	Practice	Introduce of ultrasonography
5	Theoretical	Diagnosis of pregnancy in bitches
	Practice	Examined of pregnancy with palpation and ultrasound in queens
6	Theoretical	Diagnosis of pregnancy with abdominal palpation
	Practice	Examined of pregnancy with palpation and ultrasound in bitches
7	Theoretical	Diagnosis of pregnancy with hormone detection
	Practice	Examination of pregnancy in rabbits
8	Theoretical	Diagnosis of pregnancy with ultrasound
	Practice	Repetition of general application
9	Practice	Blood sampling from queens and bitches
	Intermediate Exam	Intermediate exam
10	Theoretical	Determining time of birth according to fetal measurements
	Practice	Evaluation of intermediate exam
11	Theoretical	Causes of wrong pregnancy diagnosis
	Practice	Fetal measurements with ultrasonography
12	Theoretical	Determine of number of offspring



12	Practice	Fetal measurements with ultrasonography
13	Theoretical	Embryonic deaths
	Practice	Fetal measurements with ultrasonography
14	Theoretical	Fetal deaths
	Practice	Determining methods number of offspring with ultrasonography
15	Theoretical	Repetition of general subjects
	Practice	Determining methods number of offspring with ultrasonography
16	Practice	Repetition of general applicaitons
	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Assignment	4	0	6	24
Reading	14	0	4	56
Midterm Examination	1	10	1	11
Final Examination	1	15	2	17
Total Workload (Hours)				150
[Total Workload (Hours) / 25*] = ECTS				6

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	When correct diagnosis usage which diagnostic methods
2	Diagnosis of pregnancy by detection of hormone
3	Diagnosis of pregnancy by abdominal palpation
4	Diagnosis of pregnancy by ultrasound
5	Diagnosis of pregnancy by vaginal biopsy

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

1	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.
2	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.
3	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 aware 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.
4	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.
5	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.
6	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 contraceptve methods to female animals. Being informed about assisted reproductive techniques.
7	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.
8	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.
9	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.



10	Learning methods and principles of scientific research, learn and acquire scientific ethics concept. Being aware 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.
11	Being able to plan, conduct and accomplish an original scientific 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 gynaecology.

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	4	4	5	4	4
P3		4	5	4	4
P4	3				
P7	3		5	3	4

