AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Pregnancy Diagnosis in Farm Animals								
Course Code	VDJ608		Couse Level	Third Cycle (Doctorate Degree)					
ECTS Credit	5	Workload	125 *(Hours)*	Theory	1	Practice	0	Laboratory	0
Objectives of the Course	To teach pregnacy diagnosis methods and pregnacy control in cow, mare, sheep, camel and others farm animals								
Course Content	The methods which used for pregnancy diagnosis especially in large farm animals (rectal palpation, endocrinologic controls, ultrasound)								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion, 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	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.

Week	Weekly Detailed Course Contents	
1	Theoretical	Pregnancy physiology
2	Theoretical	Blastogenesis, Embriogenesis
3	Theoretical	Placental functions, pregnancy endocrinologic profile
4	Theoretical	Pregnancy diagnosis methods
5	Theoretical	Rectal palpation and ultrasonographic pregnancy diagnosis in cow and camel
6	Theoretical	Rectal palpation and ultrasonographic pregnancy diagnosis in cow and camel
7	Theoretical	Rectal palpation and ultrasonographic pregnancy diagnosis in mare
8	Theoretical	Rectal palpation and ultrasonographic pregnancy diagnosis in mare
9	Intermediate Exam	Mid-term examination
10	Theoretical	Rectal palpation and ultrasonographic pregnancy diagnosis in sheep and goat
11	Theoretical	pregnancy diagnosis using by hormon and immunological test
12	Theoretical	Pregnancy pathologies and diagnosis methods
13	Theoretical	Pregnancy pathologies and diagnosis methods
14	Theoretical	Diagnosis of abortus
15	Theoretical	General repating of lecture
16	Final Exam	Final examination

Workload Calculation				
Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Assignment	4	0	8	32
Reading	14	0	3	42
Midterm Examination	1	12	1	13

Final Examination	1	23	1	24
			Total Workload (Hours)	125
			[Total Workload (Hours) / 25*] = **ECTS**	5
**25 hour workload is accepted as 1 ECTS*				

Learning Outcomes	
1	To have knowledge about physiology and endocrinology of pregnancy in domestic animals
2	To perform pregnancy diagnosis in cow and mare
3	To perform pregnancy diagnosis in sheep and goat
4	to control pregnancy and to diagnose fetal health
5	To diagnose pathological cases during pregnancy period

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 avare of predispozing and effective etiology of dystocia. Learning the initial approach to dystocia cases and learning to choose the appropiate 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 appropiate timing of insemination or mating. Being able to administer medical and operative contraseptive methods to female animals. Being informed about asssisted 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 appropiate therapy in various animal species.
10	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.
11	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	5
P2	5	4	4	4	4
P3	5	4	4	4	4
P7	4	3	3	4	3
P9					4