

# AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Fertilisation and Placentation								
Course Code		VDJ504		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	5	Workload	125 <i>(Hours)</i>	Theory		2	Practice	0	Laboratory	0
Objectives of t	nation to about ment of speci		erine	life which r	esults in birth	in mammals;	examination of d	ifferences		
Course Content		Importance of its functionalit			, blas	stogenesis	phase, embriy	yogenesis, for	mation of the place	centa and
Work Placement		N/A								
Planned Learning Activities and Teaching Met		Methods	Explan	ation	(Presentat	tion), Discussi	on, Individual	Study, Problem S	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 Cour	rse Contents
1	Theoretical	Genital tract in mammals (general information)
2	Theoretical	Fertilisation, transportation of oocyte and spermatozoon in the female genital tract in mammals, life span, combination of gametes, reaction of acrosom, reaction of fertilization, parthenogenesis, sexism, organization of oocyte stoplasm, types of oocytes and divisions
3	Theoretical	Continuation of the matter
4	Theoretical	Factors effecting fertilization
5	Theoretical	Zigosite
6	Theoretical	Blastogenesis and implantation
7	Theoretical	Embriyogenesis ( stage of embriyo )
8	Theoretical	Formation of the membranes of juvenile
9	Intermediate Exam	Intermediate exam
10	Theoretical	Formation of the placenta in domesticated animals
11	Theoretical	Types of placenta in mammals
12	Theoretical	Functions of the placenta
13	Theoretical	Endocrinology of pregnancy
14	Theoretical	Antepartum complications
15	Theoretical	Repetition of the overall subject

#### **Workload Calculation**

Final Exam

16

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	4	0	5	20
Reading	14	0	4	56
Midterm Examination	1	6	2	8



Final exam

					Course mormation Form	
Final Examination	1		11	2	13	
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = ECTS						
*25 hour workload is accepted as 1 ECTS						

Learn	ing Outcomes
1	To be able to comprehend the process which begins with ovum fertilisation and completes with the birth of fetus
2	To be able to have prior knowledge about genital tract in mammals
3	To be able to have knowledge about fertilization and implantation
4	To be able to comprehend placentation and placenta types in domesticated mammals
5	To be able to comprehend information which forms the basis of obstetrics and gynecology and artificial insemination courses.
6	To be able to comprehend endocrinology of pregnancy and antepartum complications

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

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 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 contraseptive 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 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.

	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	
P2	3	4	3		4	4
P3	5	4	5	4	4	
P7						4
P9						4

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

