

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Gametogenesis								
Course Code		VDJ505		Couse Level		Second Cycle (Master's Degree)				
ECTS Credit	5	Workload	125 (Hours)	Theory	/	1	Practice	0	Laboratory	0
Objectives of the Course		Realization of gametogenesis which is the basis of embryo and foetus' development processes and giving information about continuing process								
Course Content		Hystological progress of male and fer embryonic period and supporter representations.						impacts of th	nese cells on the e	arly
Work Placement		N/A								
Planned Learning Activities and Teaching Methods			Explan	atio	n (Presentat	tion), Discussi	on, Individua	al 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				

Reco	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	se Contents					
1	Theoretical	Embryology andterminology (General information)					
2	Theoretical	Embryology andterminology (General information)					
3	Theoretical	Mitosis and meiosis					
4	Theoretical	Prenatal and postnatal period					
5	Theoretical	Gametogenesis (Primordial germ cells, abnormal gamet cells)					
6	Theoretical	Phases of gametogenesis					
7	Theoretical						
8	Theoretical	Oogenesis and follikulogenesis					
9	Intermediate Exam	Intermediate exam					
10	Theoretical	Gamet transportation					
11	Theoretical	Ovary cycle					
12	Theoretical	Ovulation and Ejaculation					
13	Theoretical	Insemination and Fertilization (Capacitation , akrozom reaction)					
14	Theoretical	The other stages of embryonal growing					
15	Theoretical	Assistant reproduction technics (IVF , embryo transportation)					
16	Final Exam	Final exam					

Workload Calculation								
Activity	Quantity	Preparation	Duration	Total Workload				
Lecture - Theory	14	0	1	14				
Assignment	4	0	6	24				
Reading	14	0	4	56				
Midterm Examination	1	8	2	10				



Final Examination	1		19	2	21		
			To	tal Workload (Hours)	125		
			Total Workload (Hours) / 25*] = ECTS	5		
*25 hour workload is accepted as 1 ECTS							

Learr	ning Outcomes
1	To be able to comprehend the first growing stage of ovum and spermium cells
2	To be able to comprehend hystological changes in primordial germ cells
3	To be able to comprehend segmentation, gastrulation and other stages of embryonal growing
4	To be able to comprehend information which constitutes the basis of lectures of parturition and gynecology and artificial insemination
5	To be able to learn the assistant reproductive methods and current advances in this lecture
6	To be able to learn orenatal and postnatal period

o be able to learn orenatal and postnatal period 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 3 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 5

- 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 asssisted 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	L6
P1	4	4	4	5	4	
P2	5	5	5	5		
P6						4
P10						4
P11						4

