

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title Examination of the Marr		of the Mamma	nary Glands and Milk						
Course Code		VDJ522		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit 5		Workload	125 <i>(Hours)</i>	Theory	2	Practice	2	Laboratory	0
Objectives of the Course Explanation of the met			f the methods	ds applied today for mamma health in dairy farms					
Course Content		This course gives information about clinical examination of mamma used as a dignosis for mamma diseases and physical, chemical and laboratory examination methods of milk							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods			Methods	Explanation (Presentation), Demonstration, 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	Hafez, E.S.E. (1993) Reproduction in Farm Animals, Lea & Febiger, Philadelphia.
5	Dinç, D.A. (2008) Ultrason fiziği ve ineklerde reprodüktif ultrasonografi, Pozitif Matbaacılık Ltd. Şti, Ankara.
6	Baştan, A. (2007) İneklerde Meme Hastalıkları, Alp Ofset Matbaacılık Ltd. Şti, Ankara
7	Dinc, D.A. (1995) Evcil hayvanlarda memenin deri hastalıkları, dolaşım bozuklukları ve operasyonları, Konya

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Basic principals of control programs of udder health in dairy farms
	Practice	Udder anatomy
2	Theoretical	Udder anatomy
	Practice	Examination of the udder
3	Theoretical	Defence system of the udder
	Practice	Examination of the teat
4	Theoretical	The use of appropriate methods of milking
	Practice	Macroscopic examination of the milk
5	Theoretical	Machine milking
	Practice	Macroscopic examination of the milk
6	Theoretical	Examination of udder
	Practice	Diagnostic methods of clinical mastitis
7	Theoretical	Examination of the teat
	Practice	Microbiological examination
8	Theoretical	Mastitis
	Practice	Microbiological examination
9	Practice	Preparation of CMT solution
	Intermediate Exam	Intermediate exam
10	Theoretical	Subclinical mastitis
	Practice	Diagnostic methods of subclinical mastitis
11	Theoretical	Subclinical mastitis
	Practice	Diagnostic methods of subclinical mastitis



12	Theoretical	Examination of the milk
	Practice	Anaesthesia of the udder
13	Theoretical	Teat injuries
	Practice	operations of indoor teat on slaughterhouse material
14	Theoretical	Udder operations
	Practice	operations of indoor teat on slaughterhouse material
15	Theoretical	Protection from the mastitis
	Practice	Udder operations
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload		
Lecture - Theory	14	0	2	28		
Lecture - Practice	14	0	2	28		
Assignment	4	0	3	12		
Reading	14	0	3	42		
Midterm Examination	1	5	2	7		
Final Examination	1	6	2	8		
Total Workload (Hours)						
[Total Workload (Hours) / 25*] = ECTS						

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend udder anatomy
2	To be able to determine Hygiene standarts which should be applied in dairy farms
3	To be able to comrepehend protective measures for mastitis that can occur in udder
4	To be able to learn the examination of milk
5	To be able to learn about what needs to be done in dry period
6	To be able to learn treatment methods in mastitis

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

Flogi	anime Outcomes (Obstatics 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.



- 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	5	5	5	4	5	4
P8		5	5	4		3