

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Reproduction	in the Water E	Buffalo					
Course Code		VDJ539		Couse Level		Second Cycle (Master's Degree)			
ECTS Credit	2	Workload	55 (Hours)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		To give information about the reasons of infertility and reproduction features of water buffalos which stand our with their meat, milk and immune system							
Course Content		Reproductive traits, period of pregnancy, causes of infertility of water buffalos							
Work Placement		N/A							
Planned Learning Activities and Te		and Teaching	Methods	Explanation	on (Presenta	tion), Discussi	on, Individua	l 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 Cour	se Contents				
1	Theoretical	Anatomy of reproductive organs and their differences in water buffaloes				
	Practice	Practise of anatomy				
2	Theoretical	Mammary anatomy and its differences in water buffaloes				
	Practice	Practise of anatomy				
3	Theoretical	Production traits of water buffaloes				
	Practice	Clinical practise				
4	Theoretical	Reproductive traits of water buffaloes				
	Practice	Clinical practise				
5	Theoretical	Repetition of the same subject				
	Practice	Clinical practise				
6	Theoretical	Biotechnological approaches for water buffaloes				
	Practice	Laboratory practise				
7	Theoretical	Period of pregnancy in water buffaloes				
	Practice	Clinical practise				
8	Theoretical	Repetition of the same subject				
	Practice	Clinical practise				
9	Intermediate Exam	Intermediate exam				
10	Theoretical	Process of birth in water buffaloes				
	Practice	Farm application				
11	Theoretical	Repetition of the same subject				
	Practice	Farm application				
12	Theoretical	Postpartum period				
	Practice	Farm application				
13	Theoretical	Repetition of the same subject				
	Practice	Farm application				
14	Theoretical	Infertility in water buffaloes				



14	Practice	Farm application	
15	Theoretical	Repetition of the same subject	
	Practice	Farm application	
16	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	0.5	2
Reading	14	0	0.5	7
Midterm Examination	1	1	1	2
Final Examination	1	1	1	2
	55			
		[Total Workload (Hours) / 25*] = ECTS	2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend water buffaloes' genital organs and udder structure
2	To be able to comprehend production and reproductive traits
3	To be able to comprehend pregnancy period and birth
4	To be able to intervene infertility problems of water buffaloes
5	To be able to comprehend structure of water buffalo's udder
6	To be able to comprehend biotechnological approach in water buffaloes

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.



Contribution of Learning Outcomes to Programme Outcomes	1.Very Low 2.Low	3:Medium 4:High 5:Very High
Contribution of Leanning Outcomice to Frogramme Outcomice	1. VOIY LOW, L.LOW,	

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	L1	L2	L3	L4
P1	4	5	5	5
P2	3	3	4	
P3	3		4	
P4		4	3	
P7				4
P8	3			
P9				4