



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Reproductive Physiology in Buffalo							
Course Code		VST546		Course Level		Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 (<i>Hours</i>)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about puberty and sexual maturity in cow, physiological mechanism of reproduction in cow							
Course Content		Subspecies of cows, reproduction in cow, sexual cycle, freezing of cow sperm							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion					
Name of Lecturer(s)		Lec. Uğur UÇAN							

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Ball P.J.H., Peters A.R. (2004) Reproduction in Cattle. Blackwell Publishing, Oxford
2	Hafez E.S E., Hafez B. (2000) Reproduction in Farm Animals. Lippincott Williams & Wilkins, Philadelphia
3	Pineda M. H., Dooley M. P. (2003) McDonald's Veterinary Endocrinology and Reproduction, Iowa State Press, New York
4	Mitchell J.R., Doak G. A. (2004) The Artificial Insemination and Embryo Transfer of Dairy and Beef Cattle (including information pertaining to goats, sheep, horses swine, and other animals). Pearson Prentice Hall, New Jersey

Week	Weekly Detailed Course Contents	
1	Theoretical	Oestrus cycle in buffalo
2	Theoretical	Oestrus symptoms in buffalo
3	Theoretical	Techniques for oestrus detection in buffalo
4	Theoretical	Reproductive problems of buffalo
5	Theoretical	Reproductive endocrinology in buffalo
6	Theoretical	Reproductive hormone administrations in buffalo
7	Theoretical	Oestrus synchronisations in buffalo
8	Intermediate Exam	Midterm exam
9	Theoretical	Embryo transfer in buffalo
10	Theoretical	Collection of sperm in buffalo
11	Theoretical	Sperm parameters in buffalo
12	Theoretical	Short and long term storage of buffalo sperm
13	Theoretical	Artificial insemination in buffalo
14	Theoretical	Pregnancy and postpartum term in buffalo
15	Theoretical	Anestrous in buffalos
16	Final Exam	Final term exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	2	0	10	20
Reading	14	0	1	14
Midterm Examination	1	15	1	16



Final Examination	1	21	1	22
Total Workload (Hours)				100
[Total Workload (Hours) / 25*] = ECTS				4
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to be able to comprehend puberty and sexual maturity in buffaloes
2	to be able to analyse reproduction in buffaloes
3	to be able to analyse oestrus cycle in buffaloes
4	Oestrus symptoms and detection in buffaloes
5	Artificial insemination in buffaloes

Programme Outcomes (Reproduction and Artificial Insemination (Veterinary Medicine) Master)

1	To get knowledge about Reproduction and Artificial Insemination with theoretical lessons and practise
2	To get knowledge about reproductive systems of animals, reproductive organs and functions of these organs
3	To get knowledge about reproductive physiology of male and female animals, reproductive endocrinology, synchronisations and reproductive health
4	To get experience about diagnosis of oestrus, proper insemination time and method
5	To get experience to join reproductive scientific research, to follow scientific advances own field. To transfer all these experiences and knowledge to students and society
6	To gain ability to reach scientific references, to plan an experiment, study this experiment, evaluation of experimental results and compare this result similar experimental result
7	To get experience about cryopreservation and short term storage of sperm, examination of sperm
8	To get knowledge about reproductive biotechnology (artificial insemination, in-vitro fertilisation, freezing of sperm and embryo, embryo transfer, laparoscopic insemination). To Contribute and advance to science
9	To get knowledge about infertility, diagnosis of infertility, treatment of infertility in domestic animals especially commercial farms

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

	L1	L2	L3
P1	5	5	5
P2	5	5	
P3	5	5	5
P5	5	5	5
P7	5	5	5
P8	5	5	4
P9	5	5	5

