

AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title	Fertility in Far	m Animals						
Course Code	VST607 (Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit 6	TS Credit 6 Workload 150 (Hours)		Theory	2	Practice	0	Laboratory	0
Objectives of the Course Giving information about fert			tility in farm	animals an	d fertility paran	neters		
Course Content Get information about importa			rtance of fer	tility in farm	animals and fe	ertility parame	eters	
Work Placement N/A								
Planned Learning Activities and Teaching Methods		Explanation	n (Presenta	tion), Discussio	on			
Name of Lecturer(s) Prof. Ahmet CEYLAN								

Assessment Methods and Criteria

Method	Quantity Percentage (%	
Midterm Examination	1	20
Final Examination	1	60
Assignment	4	20

Recommended or Required Reading

1	Ball P.J.H., Peters A.R. (2004) Reproduction in Cattle. Blackwell Publishing, Oxford
2	Bearden H.J., Fuquay J.W., Willard S.T. (2004) Applied Animal Reproduction. Pearson Prentice Hall, New Jersey
3	Feldman E. C., Nelson R. W. (2004) Canine and Feline Endocrinology and Reproduction. Saunders, St. Louis
4	Hafez E.S E., Hafez B. (2000) Reproduction in Farm Animals. Lippincott Williams & Wilkins, Philadelphia
5	Pineda M. H., Dooley M. P. (2003) McDonald's Veterinary Endocrinology and Reproduction, Iowa State Press, New York
6	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
7	Evans G., Maxwell WMC. (1987) Salamon's Artificial Insemination of Sheep and Goats. Butterworths, Sydney

Week	Weekly Detailed Cours	se Contents
1	Theoretical	Description of fertility in farm animals and its importance
2	Theoretical	Targets to be achieved in fertility
3	Theoretical	Description of fertility parameters in farm animals
4	Theoretical	Description of fertility parameters in farm animals
5	Theoretical	Defining and objectives of the fertility parameters in farm animals
6	Theoretical	Management of farm and fertility
7	Theoretical	Management of farm and fertility
8	Intermediate Exam	Midterm exam
9	Theoretical	Fertility and fertility parameters in cows
10	Theoretical	Fertility and fertility parameters in cows
11	Theoretical	Fertility and fertility parameters in sheep
12	Theoretical	Fertility and fertility parameters in goats
13	Theoretical	Fertility in mares
14	Theoretical	Precautions which increase fertility
15	Theoretical	Precautions which increase fertility
16	Final Exam	Final term exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Assignment	3	0	12	36
Reading	14	0	2	28
Midterm Examination	1	24	2	26



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Final Examination	1	30	2	32		
Total Workload (Hours)						
	[Total Workload (Hours) / 25*] = ECTS					
*25 hour workload is accepted as 1 ECTS						

Learn	ning Outcomes		
1	Fertility in farm animals		
2	Description of fertility parameters in farm animals		
3	Targets to be achieved in fertility		
4	Precautions which increase fertility in farm animals		
5	The importance of fertility in reproduction		

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

1	To get knowledge about reproduction and artificial insemination with theoretical lessons and practise, also to get knowledge about reproductive systems of animals, reproductive organs and functions of these organs
2	Hormonal mechanisms of oogenesis and spermatogenesis, movements of oocyte and sperm cells in the genital tracts, factors affecting spermatogenesis and oogenesis, blood-testis barrier, functions of epidydymidis, capacitation and acrosome reaction of sperm cells, fertilization (fusion, activation, penetration)
3	To get knowledge about reproductive anatomy of male and female animals, reproductive endocrinology, , embryonic development of gonads, prenatal development, development-regression and luteolysis of corpus luteum, histological, anatomical and physiological structure of uterus, fertilization, early embryonic development, luteal mechanism, implantation, involution of uterus post partum, sperm migration in cervical mucus, oogenesis, acrosomal enzymes, fusion, activation, penetration, syngamy and polispermy and reproductive health
4	To get ample information about the structure and functions of hormones related to reproduction and diagnosis of oestrus, proper seeding time and gain experience in the selection of the technique in domestic animals
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	Systematic of special examination, morphological and functional examination of genital organs, microbiological examination of sperm cells, ultra structure characteristics of sperm cells, factors affecting sperm quality, spermatological examination, Short term storage and cryopreservation of sperm cells, cryopreservation methods, factors affecting the success of thawing sperm cells, manipulations applied before or after thawing
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
10	To make a research about reproduction and artificial insemination, this can contribute and advance to science
11	To get experience about to write a national or international article about reproduction and artificial insemination, this can contribute and advance to science

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

	L1	L2	L3	L4	L5
P1	5	5	4	4	5
P9	5	5	4	5	5

