AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Examination of the Genital Tract in Domestic Animals								
Course Code	VST603		Couse Level		Third Cycle (Doctorate Degree)				
ECTS Credit	6	Workload	150 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	To teach Genital tracts anatomy, physiology. Functions of genital tract. Differences of genital tracts of different species.								
Course Content	Female and male genital tract anatomy, comparison of genital tracts of different species.								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration								
Name of Lecturer(s)	Lec. Niyazi KÜÇÜK								

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	20
Final Examination	1	60
Assignment	6	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 Course Contents	
1	Theoretical	Description of female genital tract
	Practice	Preparation in Cows for rectal examination
2	Theoretical	Description of male genital tract
	Practice	Rectal palpation in Cows
3	Theoretical	Physiology of female genital tract
	Practice	Rectal examination, palpation of the uterus and cervix
4	Theoretical	Role and importance of female genital tract in reproduction
	Practice	Rectal examination, palpation of the ovaries
5	Theoretical	Palpation of cervix and uterine horns during rectal palpation
	Practice	Palpation of the ovaries and the determination of sexual cycle
6	Theoretical	Physiology of male genital tract
	Practice	Palpation of the genital organs can be seen during the normal structures
7	Theoretical	Role and importance of male genital tract in reproduction
	Practice	Examination of the genital organs and attachment glands in bull
8	Intermediate Exam	Midterm exam
9	Theoretical	Importance of cervix in reproduction
	Practice	Preparation for rectal examination and rectal palpation in mare
10	Theoretical	Importance of ovary and uterine in reproduction
	Practice	Examination of genital organs in mare
11	Theoretical	Examination of female genital tract
	Practice	Determination of estrus in mares with rectal examination
12	Theoretical	Examination of female genital tract
	Practice	Normal structures of the genital organs can be seen in mares

13	Theoretical	Examination of male genital tract
	Practice	Pathological structures can be seen in the mare genital organs
14	Theoretical	Examination of male genital tract
	Practice	Palpation of the ovaries and the determination of sexual cycle
15	Theoretical	Examination of male genital tract
	Practice	Palpation of the ovaries and the determination of sexual cycle
16	Final Exam	Final term exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Lecture - Practice	14	0	2	28
Assignment	2	0	10	20
Reading	14	0	2	28
Midterm Examination	1	18	2	20
Final Examination	1	24	2	26
			Total Workload (Hours)	150
			[Total Workload (Hours) / 25*] = **ECTS**	6

**25 hour workload is accepted as 1 ECTS*

Learning Outcomes

1	To get information about male and female genital tract
2	importance of reproductive organs and their functions
3	Physiology and functions of genital tract
4	Comparison of different species
5	To learn how this knowledge can apply in practise

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 epididymidis, 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	5	4	
P2		5		3	

P3	5	5	5		
P4	3			3	
P5			3		5
P6				3	4
P7			4		
P11					4