AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Methods of Semen Collection						
Course Code	VST531		Couse Level	Second Cycle (Master's Degree)			
ECTS Credit	4	Workload	100 *(Hours)*	Theory	2	Practice	2	Laboratory	0
Objectives of the Course	To give information about techniques and methods applied in order to collect semen in different animals						
Course Content	Collection of semen from domestic animals e.g. bull, ram, dog etc. important points of this application, rules of this procedure, and the preparation of artificial vagina						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods			Explanation (Presentation), Demonstration, Discussion, Individual Study				
Name of Lecturer(s)							

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	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	To be considered points during sperm collection
	Practice	Practise in clinic
2	Theoretical	Sexual reflections
	Practice	Exercise in the field
3	Theoretical	Semen collection by manual massage technique
	Practice	Practise in field
4	Theoretical	Semen collection by surgical method
	Practice	Practise in clinic
5	Theoretical	Semen collection by electro ejaculation
	Practice	Practise in clinic
6	Theoretical	Semen collection by artificial vagina
	Practice	Practise in clinic
7	Theoretical	Preparation of artificial vagina
	Practice	Practise in clinic
8	Intermediate Exam	Midterm exam
9	Theoretical	Semen collection from bulls
	Practice	Practise in field
10	Theoretical	Semen collection from stallion
	Practice	Practise in field
11	Theoretical	Semen collection from ram
	Practice	Practise in clinic
12	Theoretical	Semen collection from goat
	Practice	Practise in clinic
13	Theoretical	Semen collection from dog

13	Practice	Practise in clinic
14	Theoretical	Semen collection from cat
	Practice	Practise in clinic
15	Theoretical	Semen collection from poultries
	Practice	Practise in field
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
Reading	14	0	1	14
Midterm Examination	1	9	1	10
Final Examination	1	19	1	20
			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 define the considered points during collection sperm in domestic animals
2	to be able to apply techniques for sperm collection
3	to be able to report the preparation of artificial vagina
4	to be able identify sexual reflections
5	To have information about the factors affecting sperm quality.

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	L4
P1	5	5	5	5
P3	4	4	3	5
P7	3	4		
P9				2