AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Reproductive Hormones in Male Animals						
Course Code	VST532		Couse Level	Second Cycle (Master's Degree)			
ECTS Credit	3	Workload	75 *(Hours)*	Theory	2	Practice	0	Laboratory	0
Objectives of the Course	To give information about reproductive hormones in male animals, function and effects of this hormones						
Course Content	Reproductive hormones in male animals, its features and differences in species						
Work Placement	N/A						
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Discussion						
Name of Lecturer(s)	Prof. Ahmet CEYLAN						

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	Reproductive hormones in male animals and their features
4	Theoretical	LH (ICSH)
5	Theoretical	Testosterone and Androgen binding protein (ABP)
6	Theoretical	Endocrine and histological mechanism of spermatogenesis
7	Theoretical	Reproductive endocrinology in bulls
8	Intermediate Exam	Midterm exam
9	Theoretical	Reproductive endocrinology in stallion
10	Theoretical	Reproductive endocrinology in ram
11	Theoretical	Reproductive endocrinology in buck
12	Theoretical	Reproductive endocrinology in dog
13	Theoretical	Reproductive endocrinology in cat
14	Theoretical	Indications of reproductive hormones in male animals
15	Theoretical	Indications of reproductive hormones in male animals
16	Final Exam	Final term exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	2	28
Reading	14	0	1	14
Midterm Examination	1	10	1	11
Final Examination	1	21	1	22
			Total Workload (Hours)	75
			[Total Workload (Hours) / 25*] = **ECTS**	3
*25 hour workload is accepted as 1 ECTS				

Learning Outcomes

1	to be able to analyse reproductive hormones in male animals
2	to be able to formulate clinical usage of reproductive hormones
3	to be able to demonstrate differences of reproductive hormones in different species
4	To have knowledge about measurement methods of reproductive hormones in male animals.
5	To have information about the misuse of reproductive hormones in male animals.

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	4	3	4
P3	5		5
P9	3	4	4