AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title		Clinical Usage of Hormones						
Course Code		VST523		Couse Level		Second Cycle (Master's Degree)		
ECTS Credit	3	Workload	76 (Hours)	Theory	2	Practice	0	Laboratory	0
Objectives of the Course		To give information about the principles of hormonal treatments, indications of hormonal treatments, natural and synthetic hormones for treatment and side effects of hormones						
Course Content		Classifications of hormones, clinical usage of hormones, hormonal treatments for the synchronisation of oestrus						
Work Placement		N/A						
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Discussion				
Name of Lecturer(s)		Prof. İlker SERİN						

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	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	Classifications of hormones
2	Theoretical	Hormone profiles during sexual cycle
3	Theoretical	Clinical usage of FSH
4	Theoretical	Clinical usage of LH
5	Theoretical	Clinical usage of GnRH
6	Theoretical	Clinical usage of PMSG
7	Theoretical	Clinical usage of hCG
8	Theoretical	Clinical usage of prostaglandins
9	Intermediate Exam	Midterm exam
10	Theoretical	Clinical usage of progesterone
11	Theoretical	Synchronisation methods in cows
12	Theoretical	Synchronisation methods in mares
13	Theoretical	Synchronisation methods in ewes and goats
14	Theoretical	Stimulation of estrus and ovulation in dogs and cats
15	Theoretical	Supression of estrus and ovulation in dogs and cats
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	13	1	14

Final Examination	1	18	2	20
		Total Workload (Hours)		76
		[Total Workload (Hours) / 25*] = **ECTS**		3

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	to be able to formulate reproductive hormones
2	to be able to comprehend clinical usage of reproductive hormones
3	To have knowledge about oestrus synchronization with hormones in small ruminants
4	To have knowledge about oestrus synchronization with hormones in ruminants
5	To have knowledge about hormonal termination of pregnancy

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	4	4
P3	5	5	5
P4	5	5	5
P5	3	3	3
P6	3	3	3
P8	4	4	4
P9	5	5	5