AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Introduction to Reproductive Ultrasonography								
Course Code	VST547		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 general principles of ultrasound, ulrasonogrophic anatomy of genital tract in domestic animal, rectal and abdominal ultrasound of genital tract, evaluations of ultrasound								
Course Content	Definition of ultrasound technology, ultrasound of genital tract, pregnancy check by ultrasound in domestic animals								
Work Placement	N/A								
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Demonstration, Discussion								
Name of Lecturer(s)									

Assessment Methods and Criteria		
Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading	
1	Hafez E.S E., Hafez B. (2000) Reproduction in Farm Animals. Lippincott Williams & Wilkins, Philadelphia

Week	Weekly Detailed Course Contents	
1	Theoretical	Definition of ultrasound technology
	Practice	Practise in clinic
2	Theoretical	Ultrasound of genital tract
	Practice	Practise in clinic
3	Theoretical	Ultrasound of ovaries
	Practice	Practise in clinic
4	Theoretical	Ultrasound of uterine
	Practice	Pratise in clinic
5	Theoretical	Ultrasound of cervix
	Practice	Practise in clinic
6	Theoretical	Ultrasound of healthy genital tract
	Practice	Practise in clinic
7	Theoretical	Pathologies of genital tract organs
	Practice	Practise in clinic
8	Practice	Practise in clinic
	Intermediate Exam	Midterm exam
9	Theoretical	Diagnosis of pregnancy by ultrasound in cows
	Practice	Practise in clinic
10	Theoretical	Diagnosis of pregnancy by ultrasound in mares
	Practice	Practise in clinic
11	Theoretical	Diagnosis of pregnancy by ultrasound in ewes
	Practice	Practise in clinic
12	Theoretical	Diagnosis of pregnancy by ultrasound in goats
	Practice	Practise in clinic
13	Theoretical	Diagnosis of pregnancy by ultrasound in bitches
	Practice	Practise in clinic
14	Theoretical	Diagnosis of pregnancy by ultrasound in cats
	Practice	Practise in clinic
15	Theoretical	Diagnosis of pregnancy by ultrasound in rabbits
	Practice	Practise in clinic

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	10	1	11
Final Examination	1	18	1	19
			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 ultrasound technology
2	to be able to comprehend the methods of ultrasound examination
3	to be able to analyse ultrasound of reproductive organs in domestic animals
4	to be able to analyse diagnosis of pregnancy in domestic animals
5	Ultrasonographic examination of reproductive canal

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	4	5	5
P2	5		5	5
P3	2	4	2	3
P4	4		5	3
P5	5	4	5	5
P6	3		3	3
P8	2		2	2
P9	5		5	5