AYDIN ADNAN MENDERES UNIVERSITY
COURSE INFORMATION FORM

Course Title	Sampling From the Uterus and Vagina							
Course Code	VDJ527		Couse Level	Second Cycle (Master's Degree)				
ECTS Credit	2	Workload	50 *(Hours)*	Theory	1	Practice	2	Laboratory	0
Objectives of the Course	sampling from uterus and vagina and evaluation for the purpose of reproduction in domesticated animals							
Course Content	This course teaches sampling techniques from uterus for the diagnosis of gynecological diseases							
Work Placement	N/A							
Planned Learning Activities and Teaching Methods	Explanation (Presentation), Experiment, Demonstration, Discussion, Individual Study, Problem Solving							
Name of Lecturer(s)								

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	40
Final Examination	1	60

Recommended or Required Reading

1	Alaçam, E. (2002) Doğum ve İnfertilite, Medisan Yayınları, Ankara.
2	Johnston, S.D., Kustritz, M.V.R., Olson, P.N.S. (2001) Canine and Feline Theriogenoiogy, W.B. Saunders Comp., Philadelphia.
3	Noakes, D.E., Parkinson, T.J., England, G.C.W. (2001) Artur's Veterinary Reproduction and Obstetrics, W.B. Saunders Comp., Philadelphia.
4	Hafez, E.S.E. (1993) Reproduction in Farm Animals, Lea & Febiger, Philadelphia.
5	Dinç, D.A. (2008) Ultrason fiziği ve ineklerde reprodüktif ultrasonografi, Pozitif Matbaacılık Ltd. Şti, Ankara.
6	J. Kevin KEALY, H. Mc ALLISTER (2005) Diagnostic Radiology and Ultrasonography of the Dog and Cat

Week	Weekly Detailed Course Contents	
1	Theoretical	Reproductive anatomy in domesticated animals
	Practice	Anatomy of the genital tract
2	Theoretical	Histology of the reproductive system-1
	Practice	Anatomy of the genital tract
3	Theoretical	Histology of the reproductive system-2
	Practice	Methods of the vaginal examination
4	Theoretical	Cases which require sampling from uterus and vagina in domesticated animals-1
	Practice	Methods of the vaginal examination
5	Theoretical	Cases which require sampling from uterus and vagina in domesticated animals-2
	Practice	Methods of the rectal examinations
6	Theoretical	Necessary tools when sampling from uterus and vagina
	Practice	Methods of the rectal examinations
7	Theoretical	Critical points while sampling
	Practice	Vaginal smear
8	Theoretical	Critical points while sampling
	Practice	Vaginal smear
9	Practice	Microbiologic sampling from vagina
	Intermediate Exam	Intermediate exam
10	Theoretical	conversion of samples taken from uterus and vagina into form that can be evaluated
	Practice	Microbiologic sampling from vagina
11	Theoretical	Methods to be used for evaluation of samples
	Practice	Microbiologic sampling from uterus
12	Theoretical	Datas to be obtained from samples
	Practice	Histopathological sampling from vagina
13	Theoretical	Evaluations of datas which are obtained from samples

13	Practice	Histopathological sampling from vagina
14	Theoretical	Critical points during evaluation of samples
	Practice	Histopathological sampling from uterus
15	Theoretical	Incorrect results caused by application failure when evaluation of samples
	Practice	Histopathological sampling from uterus
16	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	0	1	14
Lecture - Practice	14	0	2	28
Midterm Examination	1	2	1	3
Final Examination	1	4	1	5
			Total Workload (Hours)	50
			[Total Workload (Hours) / 25*] = **ECTS**	2

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	To be able to comprehend reproductive anatomy in domesticated animals
2	To be able to comprehend cases which require sampling from uterus and vagina for the purpose of reproduction
3	To be able to comprehend materials Which are used in sampling from uterus and vagina
4	To be able to comprehend the path to be followed for the sampling from uterus and vagina
5	To be able to evaluate samples which are collected from uterus and vagina
6	To be able to comprehend the tools and materials used while sampling in uterus and vagina

Programme Outcomes *(Obstetrics and Gynecology (Veterinary Medicine) Master)*

1	Acquiring basic principles and establishing crucial links in the theory and practical aspects in the field of Obstetrics and Gynecology. Getting grip on the animal's reproductive systems, organs, structures and their functional features.
2	Reproductive anatomy of the female animals, embriyonic development of the gonads, maturation, cellular and hormonal mechanisms of oogenesis and mechanisms of ovulation and transport of ovum. Sexual cycles of the female animals and their species related differences.
3	Being informed about the fertilisation, early embriyonic development, implantation and pregnancy. Fetal development, intrauterine life and detection of risked pregnancies. Learning to deal with the the issues of abortion. Knowing the hormonal and obstetrical aspects of normal parturition. Recognizing dystocia cases and being avare of predispozing and effective etiology of dystocia. Learning the initial approach to dystocia cases and learning to choose the appropiate intervention. Learning to apply the obstetrical methods.
4	Being informed about the puerperium and postpartum periods, learning the physiology and diagnosis and treatment of pathological conditions (metabolic, infectious and traumatic) during the transition period. Learn the ability to perform intrauterine applications. Acquiring right approaches on handling mother and the offspring in the puerperal period. Learning about the care and diseases of the newborn.
5	Gaining experience about the fertility parameters in the farm animals. Being informed about the diagnosis and therapy of infertility cases and management of them in the herd scale. Learning necessary precautions and management practices for establishing the reproductivity as a branch of herd health. Being informed about the effects of nutrition and management on reproduction.
6	Acquiring the knowledge of the hormones and their clinical applications, affecting reproduction directly or indirectly. Learning methods of sexual synchrnisation and appropiate timing of insemination or mating. Being able to administer medical and operative contraseptive methods to female animals. Being informed about asssisted reproductive techniques.
7	Administering specialized systematic examination of female animals, performing morphologic and functional examination of the female genitalia and mammary glands thus learning the diagnosis of hormonal, infectious, traumatic and tumoral diseases. Gaining skills in surgical therapy or/and elective gynaecological-oncological, udder and teat operations of the related diseases.
8	Having knowledge of the etiology, diagnosis and therapy of mastitis. Learning necessary precautions and management practices to control mastitis incidence in farm animals particularly in dariy enterprises. Having knowledge of etiology, diagnosis and therapy of circulatory disorders and infectious and non-infectious skin diseases.
9	Being informed about frequently used anesthetic methods and anesthetic agents, analgesics, antibiotics, liquid therapy and other medical agents. Gaining skills in solving problems due to reproductive emergency cases, being able to make definitive diagnosis by clinical symptomatic data and administer appropiate therapy in various animal species.
10	Learning methods and principles of scientific research, learn and acquire scientific ethics concept. Being avare of current developments by surveying and analyzing scientific literature. Gaining skills in interpreting classical knowledge of the scientific area to the students and the community.
11	Being able to plan, conduct and accomplish an original scintific study that can deliver novelty, develop a new scientific method or adopt a known method to a new area and present the results as a scientific article, in the area of obstetrics and gyaecology.

Contribution of Learning Outcomes to Programme Outcomes *1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High*

	L1	L2	L3	L4	L5	L6
P1	5	5	5	5	5	4
P3	4					4
P7				4	4	3