REPRODUCTION AND ARTIFICIAL INSEMINATION IN CATS

1	Course Title:	REPRODUCTION AND ARTIFICIAL INSEMINATION IN CATS
2	Course Code:	VDT6017
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	1
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	2.00
9	Practice (hour/week):	2.00
10	Laboratory (hour/week):	0
11	Prerequisites:	None
12	Language:	Turkish
13	Mode of Delivery:	Face to face
14	Course Coordinator:	Prof. Dr. Ülgen Günay
15	Course Lecturers:	Prof.Dr.Ülgen GÜNAY
16	Contact information of the Course Coordinator:	Prof.Dr.Ülgen GÜNAY ugunay@uludag.edu.tr, 2941343 Bursa Uludağ Ünv. Veteriner Fak. Dölerme ve Suni Tohumlama Anabilim Dalı
17	Website:	
18	Objective of the Course:	To teach: 1. Clinical and diagnostic examination of male and female genital organs 2. Andrological examination in the male 3. Semen collection methods 4. Semen evaluation and biochemical structure 5. Semen preservation, dilution and freezing of semen 6. Infertility in the male and how to solve infertility problems. 7. Estrus and estrus cycle and determination of the most suitable insemination time
19	Contribution of the Course to Professional Development:	
20	Learning Outcomes:	

	1	Physiology of reproductive endocrinology, estrus cycle and its mechanism, examination of male and female genital organs and clinical use of reproductive hormones in cats.
	2	Gametogenesis, capacitation and acrosome reaction, fertilization and transport of gametes in queen reproductive tract
	3	Methods of stimulating estrus and ovulation in females
	4	Sperm collection, short term storage, cryopreservation and artificial insemination techniques
	5	
	6	
	7	
	8	
	9	
	10	

21	Course Content:

Course Content:

Week	Theoretical	Practice
1	Sexual differentiation and normal anatomy of the queen	Clinical and diagnostic evaluation of the feline reproductive tract
2	The feline estrous cycle	Clinical diagnosis of estrus in cats
3	Clinical usefulness of vaginal cytology in queen	Examination of vaginal cytology techniques in queen.
4	Using artificial insemination with fresh semen, chilled extended semen and frozen semen	Examination of vaginal cytology techniques in queen.
5	Induction of oestrus in feline	Estrus and ovulation detection methods in queen
6	Clinical approach to infertility in the queen	Infertility in queen Clinical usefulness of canine ovulation test kits
7	Sexual differentiation and normal anatomy of tom cat	Clinical and diagnostic evaluation of the tom cat reproductive tract
8	Semen collection, evaluation and preservation of semen	Clinical and diagnostic evaluation of the tom cat reproductive tract
9	Factors affecting semen characteristics	Semen evaluation (morphology: dead/live and abnormal)
10	Extended chilled semen and preservation	Semen collection techniques.
11	Frozen semen techniques	Semen extenders and extended chilled semen in tom cats
12	Variables affecting success of artificial insemination with frozen semen in tom cat	Frozen semen techniques in tom cats.
14	Prevention of fertility in the tom cat	Diagnostic approach to tom cat infertility.

Activites	Number	Duration (hour)	Total Work Load (hour)
Theoretical	14	1.00	14.00
Practicals/Labs	14	2.00	28.00
Self study and preperation	14	1.00	14.00
Homeworks	0	0.00	0.00
Projects	0	0.00	0.00
Field Studies	0	0.00	0.00
Midterm exams	0	0.00	0.00
Others	4	5.00	20.00
Final Exams	1	14.00	14.00
Total Work Load			90.00
Total work load/ 30 hr			3.00
ECTS Credit of the Course			5.00

22	Textbooks, References and/or Other	1. FELDMAN C.E., NELSON W.B. : Canine and feline W.B. Saunders Company, 2004. 2. CONCANNON P.W. : Reproduction in the dog and cat 3. E.ALAÇAM (Ed):Evcil Hayvanlarda Reproduksiyon, Sun'i Tohumlama, Doğum ve İnfertilite, Ed: 1994, Konya Reproduksiyon ve Sun'i Tohumlama , Obstetrik ve İnfertilite Nurol Matbaacılık, 1990, Ankara Beslenme Bakım ve Eğitim (AYTUG, N., YAVUZ, M., SOYLU, M.K.,1997, Bursa (Eds.): Köpek ve Kedilerde Doğum ve Jinekoloji. Medipress Matbaacılık, 2013, Malatya

23	Assesment

TERM LEARNING ACTIVITIES	NUMBER	WEIGHT
Midterm Exam	0	0.00
Quiz	0	0.00
Home work-project	0	0.00
Final Exam	1	100.00
Total	1	100.00
Contribution of Term (Year) Learning Activities to Success Grade		0.00
Contribution of Final Exam to Success Grade		100.00

Total	100.00
Measurement and Evaluation Techniques Used in the Course	

24 ECTS / WORK LOAD TABLE

25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS

	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ10	PQ11	PQ12	PQ13	PQ14	PQ15	PQ16
ÖK1	5	5	5	4	3	2	1	2	1	2	3	1	0	0	0	0
ÖK2	5	4	4	3	2	1	2	1	2	3	1	1	0	0	0	0
ÖK3	5	5	5	5	3	1	1	2	1	2	2	2	0	0	0	0
ÖK4	5	5	5	5	2	1	1	1	1	2	2	2	0	0	0	0
ÖK5	5	5	0	5	3	2	1	1	1	2	2	2	0	0	0	0
ÖK6	5	5	5	5	5	1	1	1	1	2	2	2	0	0	0	0

LO: Learning Objectives PQ: Program Qualifications

Contribution Level:	**1 very low**	**2 low**	**3 Medium**	**4 High**	**5 Very High**