REPRODUCTION AND ARTIFICIAL INSEMINATION IN DOGS

1	Course Title:	REPRODUCTION AND ARTIFICIAL INSEMINATION IN DOGS
2	Course Code:	VDT 6008
3	Type of Course:	Optional
4	Level of Course:	Third Cycle
5	Year of Study:	1
6	Semester:	2
7	ECTS Credits Allocated:	5.00
8	Theoretical (hour/week):	1.00
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:	
16	Contact information of the Course Coordinator:	ugunay@uludag.edu.tr, 2941343 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 dogs
	2	Physiology of reproductive endocrinology, estrus cycle and its mechanism, examination of male and female genital organs and clinical use of reproductive hormones in dogs
	3	Methods of stimulating estrus and ovulation in females
	4	Sperm collection, short term storage, cryopreservation and artificial insemination techniques
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21	Course Content:

	Course Content:	
Week	Theoretical	Practice
1	Sexual differentiation and normal anatomy of the bitch	Clinical and diagnostic evaluation of the bitch reproductive tract
2	Sexual differentiation and normal anatomy of the bitch	Clinical diagnosis of estrus in bitches
3	Sexual differentiation and normal anatomy of the bitch	Examination of vaginal cytology techniques in bitches
4	Timing estrus and ovulation in the bitch	Estrus and ovulation detection methods in bitches
5	Using artificial insemination with fresh semen, chilled extended semen and frozen semen	Semen evaluation (volume, color,motility,pH,concentration)
6	Induction of oestrus in bitch	Clinical usefulness of canine ovulation test kits
7	Clinical approach to infertility in the bitch	Infertility in bitches
8	Sexual differentiation and normal anatomy of the bitch	Clinical and diagnostic evaluation of the male reproductive tract
9	Semen collection, evaluation and preservation of dog semen	Semen evaluation (morphology: dead/live and abnormal)
10	Factors affecting semen characteristics	Semen collection techniques
11	Extended chilled semen and preservation	Semen extenders and extended chilled semen in male dogs
12	Frozen semen techniques, and variables	Frozen semen techniques in male dogs

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

14 Prevention of fertility in the male dog — Diagnostic approach to male dog infertility.

endocrinology and reproduction. In :C. FELDMAN (ed.),

Academic Press Inc, London, 1991

4. ALAÇAM,E Theriogenoloji, Evcil Hayvanlarda

5. The Practical Veterinarian Small Animal

23	Assessment		
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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	3	0	0	0	0
ÖK2	5	4	3	3	2	1	2	1	2	3	1	1	0	0	0	0
ÖK3	4	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	5	5	4	2	1	1	1	2	2	2	0	0	0	0
ÖK6	5	5	5	5	4	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