REPRODUCTIVE ENDOCRINOLOGY									
1	Course Title:	REPRODUCTIVE ENDOCRINOLOGY							
2	Course Code:	VET4019							
3	Type of Course:	Compulsory							
4	Level of Course:	First Cycle							
5	Year of Study:	4							
6	Semester:	7							
7	ECTS Credits Allocated:	1.00							
8	Theoretical (hour/week):	1.00							
9	Practice (hour/week):	0.00							
10	Laboratory (hour/week):	0							
11	Prerequisites:	No							
12	Language:	Turkish							
13	Mode of Delivery:	Face to f	face						
14	Course Coordinator:	Prof. Dr. ZEKARİYA NUR							
15	Course Lecturers:	Yok							
16	Contact information of the Course Coordinator:	Uludağ Üniversitesi Veteriner Fakültesi Dölerme ve Suni Tohumlamam Anabilim Dalı							
17	Website:								
18	Objective of the Course:	To give basic information in the field of endocrinology of reproduction in farm animals, to gain capability for appropriate diagnosis against clinical events and clinical uses of reproductive hormones and some biotechnological techniques theoretically and practically to the students by paying attention to the development of animal husbandry in our country							
19	Contribution of the Course to Professional Development:								
20	Learning Outcomes:								
		1	Synthesis, release, metabolism and mechanism of delivery to target tissue of reproductive hormones						
		2	Effect of dysfunction of reproductive hormones and therapy						
		3	Comparatively estrus and estrus cycle regulation in farm animals						
		4	Fertilization, implantation, embryonic and fetal development, pregnancy and act of parturition						
		5	Maternal recognition of pregnancy, sex differentiation, maintenance and termination of pregnancy via hormone						
		6	Endocrine regulation of gametogensis						
		7	Use of hormone for diagnosis and therapy and embryo transfer						
		8	Endocrine, physiologic and behavioral changes during estrous, puberty and breeding season Enhancing reproductive performance of farm animals						
		9							

	10										
21	Course Content:										
	Course Content:										
Week	Theoretical Practice										
1	Introduction, what are reproductive hormones, type of hormones and hormo release	ne									
2	Hypothalamic hormones, target tissue ar hypothalamic -hypophysial portal system	าd เ									
3	Pituitary hormones FSH LH and target tis	ssue									
4	Gonadotropins progesterone, estrogen a prostaglandins target tissue, follicular development, formation and regression o corpora lutea	and of									
5	Effect of hormones produced by placenta	а									
6	Release and effect of prenatal and pre- pubertal reproductive hormones										
7	Pubertal endocrinology, photo period and season, and other reproductive hormone (PMSG, HCG, prostaglandins etc.)	d es									
8	Male endocrinology, gametegenesiz, and	d									
Activit	es		Number		Duration (hour)	Total Work Load (hour)					
Theore	follcular phase, ovulation, and effect of		14		1.00	14.00					
Practic	als/Labs		0		0.00	0.00					
Self stu	dy and preperation		0		0.00	0.00					
Homew	vorks		0		0.00	0.00					
Project	6		0		0.00	0.00					
Field S	tudies		0		0.00	0.00					
Midtern	estious manipulation, follicular developm	nent,	1		6.00	6.00					
Others	• • • • •		0		0.00	0.00					
Final E	xams		1		10.00	10.00					
Total W	/ork Load					30.00					
Total w	Sow estrus cycle, estrus regulation, and ork load 30 in lestrous manipulation, follicular developm	nent				1.00					
ECTS (Credit of the Course					1.00					
13	Reproductive endocrinology in dog and queen, estrus cycle and estrus regulation and estrous manipulation, follicular development, post-partum period and seasonality in don and queen	n,									
14	Embryo transfer in cattle, and hormone therapy										

22	Textbooks, References and/or Other Materials:							1-S Pu 2-E Bri 8-E 3-E 4-E 4-E 4-E 5-L 6-N Ins Ca hoi Ne 7-F En	 1-Squires E.J. (2004): Aplied Animal Endocrinology.CABI Publishing, Oxon. 2-Blanchard T.L., Varner D.D., Schumacher J., Love C.C., Brinsko S.P., Rigby S.L. (2003): Manual of Equine Reproduction. Mosby, St.Louis. 3-Ball P.J.H., Peters A.R. (2004): Reproduction in Cattle. Blackwell Publishing, Oxford. 4-Bearden H.J., Fuquay J.W., Willard S.T. (2004): Applied Animal Reproduction. Pearson Prentice Hall, New Jersey. 5-Ley W.B. (2004): Broodmare Reproduction for the Equine Practitioner. Teton NewMedia, Wyoming. 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-Feldman E. C., Nelson R. W. (2004): Canine and Feline Endocrinology and Reproduction. Saunders, St. Louis 										
23	Asse	esme	ent																
TERM L	M LEARNING ACTIVITIES						N	IUMBE	E WE	WEIGHT									
Midtern	n Exa	am					1	-	40.	40.00									
Quiz							0)	0.0	0									
Home v	vork-	proje	ect				0		0.0	0									
Final Ex	xam						1		60.	60.00									
Total					2		10	100.00											
Contribution of Term (Year) Learning Activitie Success Grade					ivities	to	40.	40.00											
Contribution of Final Exam to Success Grade					rade		60.	60.00											
Total							100	100.00											
Measurement and Evaluation Techniques Use					s Use	d in th	ne												
24 ECTS / WORK LOAD TABLE																			
25 CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME QUALIFICATIONS																			
	I	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16		
ÖK1	;	3	0	4	4	0	0	0	0	0	0	4	0	0	0	0	0		
ÖK2	•	3	3	5	5	0	0	0	0	0	0	4	0	0	0	0	0		
ÖK3	;	3	3	4	4	0	0	0	0	0	0	3	0	0	0	0	0		
ÖK4	;	3	3	3	0	2	0	0	0	0	0	4	0	0	0	0	0		
ÖK5		2	2	0	0	0	0	0	0	0	0	3	0	0	0	0	0		
ÖK6	ŕ	4	3	3	0	0	0	0	0	0	0	3	0	0	0	0	0		
ÖK7	1	3	3	3	4	0	0	0	0	0	0	3	0	0	0	0	0		
ÖK8	ł	3	4	2	0	0	0	0	0	0	0	0	4	0	0	0	0		
	LO: Learning Objectives PQ: Program Qualifications																		

Contrib	1 very low	2 low	3 Medium	4 High	5 Very High
ution					
Level:					