	CONTROL OF OVUI	LATIO	N AND EMBRYO TRANSFER								
1	Course Title:	CONTRO	OL OF OVULATION AND EMBRYO TRANSFER								
2	Course Code:	VDT 600	7								
3	Type of Course:	Compuls	sory								
4	Level of Course:	Third Cy	cle								
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	0								
11	Prerequisites:	-									
12	Language:	Turkish									
13	Mode of Delivery:	Face to f	ace								
14	Course Coordinator:	Prof. Dr.	İBRAHİM DOĞAN								
15	Course Lecturers:	-									
16	Contact information of the Course Coordinator:	idogan@ Uludağ Ü Görükle/	euludag.edu.tr, 0224 2941342 Ünv. Veteriner Fak. Dölerme ve Suni Toh. ABD. 16059 BURSA								
17	Website:	http://sag	glikbilimleri.uludag.edu.tr/								
18	Objective of the Course:	To give basic information in the field of control of ovulation and embryo transfer in farm animals to the students theoretically and practically.									
19	Contribution of the Course to Professional Development:										
20	Learning Outcomes:										
		1	Artificial control of oestrus and ovulation in farm animals								
		2	Control by progesterone and progestagens								
		3	Control by Prostaglandins and their analogues								
		4	Superovulation techniques and embryo transfer								
		5									
		6									
		7									
		8									
		9									
		10									
21	Course Content:										
		Co	ourse Content:								
	Theoretical		Practice								
1	Artificial control of oestrus and ovula farm animals (Advantages of oestrus control-Upta oestrus control measures-Evaluating control measures-Factors influencing synchrony in farm animals-Hormone for induction estrus and ovulation)	ke of g oestrus g oestrus	Artificial control of oestrus and ovulation in farm animals								

2	Control by progesterone and progestagens (Injectable progesterone-Oral progestins- Intravaginal sponge pessaries-PRID-CIDR- Implants)	С	Control by progesterone and progestagens							
3	Control by prostaglandins and their analogues (Advantage of prostaglandin analogues-Dose and route of prostaglandin administration)	Control by Prostaglandins and their analogues								
4	Combined treatments in oestrus control (Progestagen in combination with prostaglandin-Progestagen GnRH prostaglandin combination-GnRH prostaglandin combinations-Oestradiol progestagen combinations)	Artificial insemination								
5	Breeding by fixed-time artificial insemination (Nutritional effects-Adjustments in Al routines- Use of GnRH around the time of artificial insemination)	Superovulation techniques								
6	Embryo transfer and associated techniques in farm animals (Historical background to ET technology-Factors limiting ET effectiveness-Current methods of collection and transfer of embryos in farm animals)	Superovulation techniques								
Activit			Number	Duration (hour)	Total Work Load (hour)					
Theore	superovulation-timing of superovulation in the local control of the FSH system-		14	1.00	14.00					
Practic	als/Labs		14	2.00	28.00					
Self stu	dyperdymanents-Predicting embryo		14	3.00	42.00					
Homew	vorks		6	8.00	48.00					
Project	Factors affecting superovulatory response	E	0 mbrvo Transfer	0.00	0.00					
Field S			0	0.00	0.00					
Midtern	ibreed Nutritional and seasonal effects-body condition effects)		1	6.00	6.00					
Others				0.00	0.00					
Fin <b>9</b> al E	ব্রিন্ম <u>e</u> ding the donor animals	E	ηbryo Transfer	8.00	8.00					
	/ork Load				146.00					
Total w	Pertility after superovulation-Evaluating				4.87					
ECTS (	Credit of the Course				5.00					
11	Preparing embryo for transfer (Media employed-Handling and-Protecting the embryo-Number of embryos transferred- Surgical and non-surgical transfers- Enhancing pregnancy rates in recipients)	Embryo Transfer								
12	Storage of embryo	Embryo Transfer								
13	Donor-recipient synchrony (Importance of synchronization-Hormones and embryo-recipient synchrony)	Embryo Transfer								

14	Selection and management of recip (Factors affecting recipient selection Recipient hormone levels-Using recipient and third occasions-Minimizin recipients)	n- cipients on	Embryo Transfer					
22	Textbooks, References and/or Othe Materials:	ēΓ	1-Gordon I. (1996): Controlled Reproduction in Cattle & Buffaloes, CABI Publishing, New York,USA. 2-Wenzel J.G.W. (1997): Estrous cycle synchronization. In: Youngquist R.S. (ed): Current Therapy in Large Animal Theriogenology. W.B. Saunders Company, Philadelphia, USA. 290-294. 3-Morel D.M.C.G. (1999): Equine Artificial Insemination, CABI Publishing, New York, USA. 4- Gordon I. (1999): Controlled Reproduction in Sheep & Goats, CABI Publishing, New York,USA 5- Jainudeen M.R., Wahid H., Hafez E.S.E. (2000): Ovulation induction, embryo production and transfer. In: Hafez E.S.E., Hafez B. (eds): Reproduction in Farm Animals. Lippincott Williams & Wilkins, New York, USA. 405-430. 6- Blanchard T.L., Varner D.D., Schumacher J., Love C.C., Brinsko S.P., Rigby S.L. (2003): Manual of Equine Reproduction, 2nd Ed., Mosby, St. Louis, USA. 7-Ball P.J.H., Peters A.R. (2004) Reproduction in Cattle, 3rd Ed., Blackwell Publishing, Oxford, UK. 8- Bearden H.J., Fuquay J.W., Willard S.T. (2004): Applied Animal Reproduction,6th Ed., Pearson Prentice Hall, New Jersey, USA. 9- Ley W.B. (2004): Broodmare Reproduction for the Equine Practitiner, 1st Ed., Teton NewMedia, Wyoming, USA.					
23	Assesment							
TERM L	EARNING ACTIVITIES	NUMBE R	WEIGHT					
Midtern	n Exam	0	0.00					
Quiz		0	0.00					
Home v	work-project	0	0.00					
Final E	xam	1	100.00					
Total		1	100.00					
	oution of Term (Year) Learning Activi ss Grade	ties to	0.00					
Contrib	oution of Final Exam to Success Gra	de	100.00					
Total			100.00					
Measur Course	rement and Evaluation Techniques (	Jsed in the						
24	ECTS / WORK LOAD TABLE	<b>=</b>						
25	CONTRIBUTION		RNING OUTCOMES TO PROGRAMME UALIFICATIONS					

25	CONTRIBUTION OF LEARNING OUTCOMES TO PROGRAMME  QUALIFICATIONS															
	PQ1	PQ2	PQ3	PQ4	PQ5	PQ6	PQ7	PQ8	PQ9	PQ1 0	PQ11	PQ12	PQ1 3	PQ14	PQ15	PQ16
ÖK1	5	5	5	5	4	2	1	3	5	4	5	2	0	0	0	0
ÖK2	5	5	5	5	2	5	1	2	3	5	4	2	0	0	0	0
ÖK3	5	5	5	5	2	5	1	2	3	5	4	2	0	0	0	0

ÖK4	5	5	5	5	2	5	1	3	5	5	5	3	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:																