NEAR EAST UNIVERSITY
Faculty of Veterinary Medicine Course Curriculum

1.	**Course Name**	ARTIFICIAL INSEMINATION AND ANDROLOGY
2.	**Course Code**	VTE410
3.	**Course Type**	Obligatory
4.	**Course Level**	Undergraduate
5.	**Year**	4
6.	**Semester**	Spring
7.	**ECTS Credits**	1
8.	**National credits**	1
9.	**Theoretical Course Hours (hours/week)**	1
10.	**Practical Course Hours (hours/week)**	0
11.	**Course Prerequisites**	No
12.	**Other Topics Recommended for the Course**	No issue
13.	**Course Language**	English
14.	**Course Format**	Face to face
15.	**Course Coordinator**	Prof. Dr. Selim Aslan - Assoc. Dr İsfendiyar Darbaz
16.	**Other Lecturers that Give the Course**	Prof. Dr. Selim Aslan - Assoc. Dr İsfendiyar Darbaz
17.	**Communication Details of the Coordinator**	selim.aslan@neu.edu.tr
18.	**Course Web Address**	

19.	**Course Aim**	To provide specific information to the students about andrology, reproduction and artificial insemination
20.	**Contribution of the Course to Occupational Development**	Students will learn and perform the technique of artificial insemination

21.	**Course Learning Outcomes**	**LO1**	Detailed information about male genital organs
		LO2	Selection of quality semen/bull
		LO3	Methods of artificial insemination
		LO4	Obtaining quality offspring with artificial insemination practices
		LO5	Infertility of a male animal and the treatment options
		LO6	Latest developments in reproductive technology

		WEEK	**THEORETICAL COURSE CONTENT**	**APPLICATION CONTENT**
22.	**Course Content**	**1.**	Anatomy of Male Reproductive Organs	-
		2.	Reproductive physiology in males, Spermatogenesis	-
		3.	Collecting and evaluating sperm	-
		4.	Components and quality of sperm	-
		5.	Conditions Affecting Reproductive Function in Male Animals	-
		6.	Freezing Sperm, Preserving and Sexing Sperm	-
		7.	MIDTERM EXAM	-
		8.	Methods and Procedures of Artificial Insemination	-
		9.	Optimal Insemination Time	-
		10.	Selection and Selection Criteria of Breeding Bulls	-
		11.	Prostate Diseases	-
		12.	Cryptorchism, Orchitis, Epididymitis	-
		13.	Embryo Transfer Applications	-
		14.	General review, evaluation	-

23.	**Course Book, References and/or Other Resources**	1. Squires E.J. (2004): Applied 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 2. 8. Arthur's Veterinary Reproduction and Obstetrics, Noakes, D.E., Parkinson,T.J., England, G.C.W. WB.Saunders Company, London, 2001. 9. McDonald's Veterinary endocrinology and reproduction, Pineda, M.H.(Edt), A Blackwell Publishing Company, 2003. 10. Okumura, H., Okhura, S., 2007. Neuroendocrine control of reproductive function in ruminants, Animal Science Journal, 78 – 105 – 111.

24.	**Evaluation**	**SEMESTER WORK**	**NUMBER**	**PERCENTAGE OF CONTRIBUTION**
		Midterm Exam	1	40%
		Short Exam	-	-
		Homework, Performance	-	-
		End of Year Exam	1	60%
		Total	2	100%
		Evaluation Approaches	Our measurement and evaluation methods are performed in the form of test, classical and oral.	

25.	**ECTS / Workload Table**	**Activity**	**NUMBER**	**Duration [Hours]**	**Total Workload [Hours]**
		Theoretical Courses	14	1	14
		Applied Courses	0	0	0
		Extracurricular Lesson Study Time (Preparation, revising)	-	-	-
		Homework, Performance	-	-	-
		Projects	-	-	-
		Field Studies	-	-	-
		Midterm Exams	1	1	1

		Other	-	-	-
		End Of Semester Exams	1	1	1
		Total Workload	3	16	16
		Total Workload / 30 hours			16/30
		ECTS. Credit of the course			1