



NEAR EAST UNIVERSITY
Faculty of Veterinary Medicine Course Teaching Plan

1.	Name of the Course	EXERCISE PHYSIOLOGY
2.	Course Code	VTE241
3.	Course Type	Elective
4.	Course Level	Undergraduate
5.	Year	2
6.	Semester/Term	Fall, 3VET
7.	ECTS credits	2
8.	National Credits	1
9.	Theory (hours/week)	1h/week
10.	Practice (hours/week)	-
11.	Prerequisites	None
12.	Other Recommended Considerations for the Course	None
13.	Course Language	English
14.	Teaching type	Face to face
15.	Course Coordinator	Prof. Dr. Vedat SAĞMANLIGİL
16.	Other Lecturers	-
17.	Coordinator's Contact Information	e-mail:vedat.sagmanligil@neu.edu.tr Telefon (Mobil): 533-8446502 (Dahili): 392-2236464 (3144)
18.	Website of the course	https://uzem.neu.edu.tr/course/view.php?id=10216
19.	Objectives of the Course	Informing the students about exercise and cardiovascular system in animals, cardiovascular regulation, evaluation of functional capacity, aerobic and anaerobic training, respiratory system, musculoskeletal system issues and exercise-related nutrition and doping.
20.	Contribution of the Course to Professional Development	The Exercise Physiology course in Veterinary Medicine education, the main subject of which is the treatment of animals and their breeding and their diseases, is considered to have high physical activity for animals to fight for survival in natural life and to protect themselves from predators. It will make an important contribution to the vocational education of students by informing them about the sports activities that some of them (such as horses and dogs) participate in

21.	Students' Learning Outcomes	LO1	The student's ability to follow the lesson and comprehend the purpose of the lesson.
		LO2	The student's ability to understand and compare the developments in this subject while watching the current issues related to the content of the course.
		LO3	The student learns the technique of conducting research in the fields of interest from the subjects related to the content of the course and preparing and making presentations on this subject.
		LO4	The student's interest in sciences (such as statistics) that are also close to the subjects of the course.
		LO5	The student also identifies different sources, reads and confirms the information about the content of the course from different sources and reinforces the subject.
		LO6	The student's adaptation to different measurement and evaluation methods to determine the success of the course.

22.	Course Content	WEEK	THEORETICAL COURSE CONTENT	PRACTICAL COURSE CONTENT
		1.	Concepts of Exercise Physiology and athletic ability	-
		2.	The athletic types and their characteristics	-
		3.	Muscle system and metabolic properties of muscle in exercise	-
		4.	Respiration in exercise	-
		5.	Concepts related to oxygen consumption and lung rotation in exercise	-
		6.	Differences in lung anatomy and respiratory types in athletic species	-
		7.	Changes in blood gases	-
		8.	Cardiovascular system in exercise	-
		9.	Work done in exercise and cardiac output	-
		10.	Effects of exercise on cardiac hypertrophy	-
		11.	Cardiovascular physiopathology in exercise	-
		12.	Relationship of exercise with red blood cell parameters	-
		13.	Thermoregulation, hormonal response and nutrition in exercise	-
		14.	Evaluation of drugs used in veterinary medicine as doping	-

23.	Textbooks, References and/or Other Sources	1. Dukes Physiology of Domestic Animals, Editors: William O. Reece, Howard H Erickson, Jesse P. Goff, Etsuro E. Uemura (13th edition), Willey-Blackwell. 2. Marlin, D., Nankervis, K. (2003) Equine Exercise Physiology Blackwell Publisher USA. 3. Hinchcliff, K. W., Gear. R.J., Kaneps. A.J.(2008) Equine Exercise Physiology: The Serence of Exercise in the Athletic Horse Saunders Elsevier. China
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24.	Evaluation	SEMESTER STUDIES	NUMBER	PERCENTAGE OF CONTRIBUTION
		Midterm exam	1	20
		Quiz	1	10
		Assignments, Performances	1	10
		Final exam	1	60
		Total		100
		Evaluation Approaches	Mid-term and Final exams are held in the form of tests. In addition, the short questions to be asked to the students during the lecture and the quiz grades to be given to the assignments and presentations will be the evaluation approaches that will be used to measure their success.	

25.	ECTS / Student's workload	Activity	NUMBER	Time [hours]	Total workload [hours]
		Class hours (theoretical)	14	1	14
		Practical hours	-	-	-
		Out of Class Study Time (Pre-study, reinforcement)	14	2	28
		Assignments, Performances	1	4	4
		Projects	-	-	-
		Field studies	-	-	-
		Midterm exams	1	6	6
		Other	-	-	-
		Final exams	1	8	8
		Total workload			60
		Total workload / 30 hours			2
		ECTS credits of the lecture			2