Module code	M_WE_SEM4 PW 1C/2C FIZJ WYS		
Field of study	Veterinary medicine		
Module name, also the name in English	Exercise physiology		
	Fizjologia wysiłku		
Language of instruction	English		
Module type	optional		
Level of studies	Long-cycle master's degree studies		
Form of study	Full-time		
Year of study in the field of study	11		
Semester of study in the field of study	IV		
ECTS credits, divided into contact/non- contact hours	1 (0.64/0.36)		
Academic title/degree, name of the person responsible for the module	Dr hab. n. wet. Sylwester Kowalik, University Professor		
Unit teaching the module	Department of Animal Physiology		
Module objective	The classes conducted within the framework of the optional course "Exercise Physiology" aim to familiarise students with selected topics concerning work and exercise physiology in animals with a particular emphasis on the physiological basis of organs and motor systems, conditioning not only the proper locomotor abilities but also determining the achievement in sports. There are also discussed factors that improve overall physical fitness and the ability to assess it.		
The learning outcomes for the module	Knowledge:		
include a description of the knowledge, skills and social competences that the student will gain after completing the module.	K1. Students know and describe normal structures of the animal organism that are responsible for locomotor activity (skeletal and muscular systems) and they explain their functions during exercise load K2. Students describe and explain the functions of the nervous, circulatory, respiratory, endocrine systems and body fluids subjected to exercise load		
	S1. Students can explain the course of basic physiological and metabolic processes of particular organs and tissues during exercise load		
	Sc1. Students are willing to use the knowledge of exercise physiology in future professional work Sc2. Students are willing to continue to expand their knowledge in the field of exercise physiology through continuing education and post-graduate courses		
Prerequisites and additional requirements	none		

Module program content	The functioning of the mammalian organism (mainly horses, dogs, humans) during exercise load and opportunities to improve exercise fitness (including sports results). Relationships between exercise load and health maintenance of humans and companion animala. Determinants of physical fitness. Functioning of individual organs and systems during training load - nervous system, muscular system, skeletal system, circulatory system, respiratory system, endocrine system, body fluids. Factors limiting muscle work and conditioning physical fitness, physiological consequences of physical inactivity, physical activity in prevention of selected disease entities (mainly metabolic diseases). The importance of physical activity during adolescence and in adult life.
List of core and supplementary literature	 Equine exercise physiology. David Marlin, Kathryn J. Nankervis. John Wiley and Sons Ltd, Oxford, United Kingdom The athletic horse: principles and practice of equine sports medicine. David R. Hodgson, Catherine M. McGowan, Kenneth McKeever. Elsevier Health Sciences, London, United Kingdom Exercise physiology: nutrition, energy, and human performance. William D. McArdle , Frank I. Katch, Victor L. Katch. Lippincott Williams and Wilkins, Philadelphia, United States
Planned forms/activities/teaching methods	Classes using multimedia presentations. Discussion Papers.
Verification methods and ways of documenting the achieved learning outcomes.	Knowledge: final credit test, preparation of a paper. Skills: preparation of a paper Social competences: discussion The credit test consists of one-choice questions graded on a scale of 0-1 points, testing the theoretical knowledge of the course Exercise Physiology. To earn a passing grade, students must receive a minimum of 51% test points. Scale of points for final test grade: Number of points: Grade (as a percentage of correct answers): 0-50% - 2.0 (unsatisfactory) 51-60% - 3.0 (satisfactory) 61-70% - 3.5 (satisfactory plus) 71-80% - 4.0 (good) 81-90% - 4.5 (good plus) 91-100% - 5.0 (very good) Student attendance in classess is mandatory. Attendance lists will be archived later, and recorded attendance as well as activity during classes will affect the final course grade. The overall grade is also affected by the grade of the papers prepared by the students.

ECTS credits			Hours	ECTS credits		
	practical classes		15	0.6		
	credit		1	0.04		
	Student's own work		9	0.36		
	TOTAL		25	1.00		
The workload of activities that requires	H	ours	ECTS c	redits		
direct participation of an academic	practical classes	15	0.6			
teacher	credit	1	0.04			
	Total	16	0.64			
Relation of module learning outcomes	K1 - A.W.1 +					
to course learning outcomes.	K2 - A.W.2 +					
	K3 - A.W.4. +					
	S1. AU4+, AU5+					
	Sc1. K1 +					
	Sc2. K8 +					
Elements and values affecting the final	Final course grade: final course credits - 70% of the course grade,					
grade	attendance - 10%, the paper grade - 20%.					