Module code	M_WE_SEM3 PW 1A/1B ANAT FIZ PT
Field of study	Veterinary medicine
Module name, also the name in English	Avian physiology and anatomy Fizjologia i anatomia ptaków
Language of instruction	English
Module type	Elective
Level of studies	Long-cycle master's degree studies
Form of study	Full-time
Year of study in the field of study	II
Semester of study in the field of study	III
ECTS credits, divided into contact/non-contact hours	1 (0.7/0.3)
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 module objective is 1. To familiarise students with the macroscopic structure of all systems and organs of birds. 2. To familiarise students with the proper functioning of various systems and organs of birds, their mutual relationships, considering the differences between species and the phenomena typical of exotic birds.
The learning outcomes for the module include a description of the knowledge, skills and social competences that the student will gain after completing the module.	Knowledge:
	K1. Students know the detailed structure of the organism of birds K2. Students know and understand the mechanisms of physiological functioning of individual tissues and organs of birds
	S1. Students can name and indicate various avian organs, discuss in detail the function of these organs and they are able to indicate the differences between the avian and the mammalian organisms.
	Sc1. Students are willing to use the knowledge of avian anatomy and physiology in future professional work Sc2. Students are willing to continue to expand their knowledge of avian anatomy and physiology during continuing education and post-graduate courses
Prerequisites and additional requirements	none

Module program content	This course aims to familiarise students with the functioning of the avian organism. Course topics include the following issues: blood physiology, anatomy and physiology of the respiratory system, anatomy and physiology of the heart and circulatory system, anatomy and physiology of the digestive system, anatomy and physiology of the reproductive (including breeding physiology) and excretory systems, physiology of metabolism and thermoregulation, anatomy and physiology of the sensory organs and the nervous and endocrine systems
List of core and supplementary literature	1. Sturkie's Avian Physiology Edited by Colin G. Scanes , Sixth edition, 2015, Elsevier Inc. ISBN: 978-0-12-407160-5 2. Color Atlas of Avian Anatomy By John McLelland, 1991 W.B. SAUNDERS COMPANY Harcourt Brace Jovanovich, Inc. Philadelphia London Toronto Montreal Sydney Tokyo
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 single-choice questions graded on a scale of 0-1 points, testing the theoretical knowledge of the course Avian physiology and anatomy . 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	Contact hours: 15 hours of practical classes 2 hours of consultations 17 hours - 0.7 ECTS credits Non-contact hours: preparation of papers - 4 hours reading of professional literature, preparation for classes - 4 hours 8 hrs. - 0.3 ECTS credits A total of 25 hours, total ECTS credits: 1
The workload of activities that requires direct participation of an academic teacher	- participation in classes - 15 hours, - participation in consultations - 2 hours, A total of 17 hours - 0.7 ECTS credits

Relation of module learning outcomes to course learning outcomes.	K1. A.W1. + K2. A.W2.+ S1. A.U13. + Sc1. K1 + Sc2. K8 +
Elements and values affecting the final grade	Course final grade: final credits - 70% class attendance - 10% and the paper grade - 20% of the total course grade.