

Module code	M_WE_SEM9 PW 1G/2G DIAG EXO
Field of study	veterinary medicine
Module name	Diagnostic imaging of exotic pets Diagnostyka obrazowa zwierząt egzotycznych
Language of instruction	English
Module type	Elective
Level of studies	long-cycle master's degree studies
Mode of study	full-time
Year of study in the field of study	V
Semester of study in the field of study	IX
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. n. vet. Anna Łojczyk
Unit teaching the module	Laboratory of Radiology and Ultrasonography
Module objective	Learning about issues related to normal imaging anatomy of exotic animals and practical interpretation of images in disease states.
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. Is knowledgeable of the advantages and limitations of the various imaging modalities
	K2. knows and understands the sequence of tests to be performed
	K3. Is knowledgeable of the impact of anatomical differences on the diagnostic process
	Skills:
	S1.is able to select the method of diagnostic imaging and perform the planned examination
	S2. is able to interpret radiographic and ultrasound images in different animal species at a basic level
	Social competences:
	Sc1. Is ready to learn and hone its skills throughout its professional life
	Sc2. Is prepared to act appropriately and make right decisions in difficult cases in selecting a diagnostic method that would expose the patient to the least amount of harmful radiation.
Prerequisites and additional requirements	-

Module programme content	<p>Methods, advantages and limitations, indications and contraindications of performing particular diagnostic imaging techniques.</p> <p>Radiation protection. The influence of patients' anatomical specificity on the course of study. Patient's preparation for examination, methods of patients' positioning, basics of image interpretation. Documentation. Artefacts. Basic principles of examination and diagnosis of pathological lesions. Radiological and ultrasonographic examination of reptiles, usefulness of computed tomography in selected diseases of exotic animals. Radiographic examination of the braces in small mammals and rodents. Evaluation of thoracic and abdominal organs in rodents and small mammals. Assessment of posttraumatic lesions.</p>		
List of core and supplementary literature	<p>1. Mannion P., Diagnostic ultrasound in Small Animal Practice, Blackwell Science 2006</p> <p>2. Farrow Ch. S., Veterinary Diagnostic Imaging: birds, exotic pets and wildlife</p> <p>3. Krautwald-Junghans M.W., Pees M., Reese S., Tully T.: Diagnostic imaging of exotic pets. Schlutersche 2009.</p>		
Planned forms/activities/teaching methods	Exercises, discussion, written assessment		
Verification methods and ways of documenting the achieved learning outcomes.	<p>K - Credit for the semester is based on successful completion of one written assessment in the form of a test (10 choice questions) and obtaining a minimum of 60% correct answers.</p> <p>S - assessment of the ability to interpret images made by the instructor during the class</p> <p>Sc - participation in class discussion</p>		
ECTS credits	CONTACT		
		Hours	ECTS
	Practical classes	15	0.6
	Credit pass/resit exam	3	0.1
	TOTAL contact hours	18	0.7
	NON-CONTACT HOURS		
	preparation for classes	5	0.17
	learning from books	4	0.13
	TOTAL non-contact hours/ ECTS credits	9	0.3
The workload related to the classes requiring direct participation of academic teachers:	attendance at practical classes	15	0.6
	participation in consultations		
	credit for exercises	3	0.1
	TOTAL of practical character	18	0.7
Degree of achievement of major learning outcomes:	<p>W1- WE_W17 ++ , WE_W18 ++</p> <p>W2- WE_W21 ++</p> <p>W3 - WE_W16 ++</p> <p>U1- WE_U2 ++, WE_U8D++, W_U20 ++</p> <p>U2 - WE_U10 ++, W_U20 ++</p> <p>K1- WE_K1 ++</p> <p>K2- WE_K6++</p>		
Elements and values affecting final grade	Final written test - 100%.		

