

**Class description card**

Field of study	Animal behaviour
Module of education	Laboratory and imaging results in health and disease
Language of lecture	english
Type of education module (obligatory/optional)	optional
Level of education module	1 stationary studies
Year of study	III
Semester	6
ECTS number including contact/ non-contact	3 (1,52/1,48)
Last name and name of responsible lecturer – scientific degree	Dr lek. wet. Aleksandra Garbiec
Unit offering the module	Department of Ethology and Wildlife Management
Aim of Module	The aim of the module is to familiarize students with basic laboratory and imaging diagnostic procedures used for health and disease assessment in companion animals.
Learning Outcomes	Knowledge:
	1. The student knows the basic physiological parameters of health and disease
	2. Student knows the basic methods used in laboratory and imaging diagnostics
	Skills:
	1. The student is able to correctly select the appropriate laboratory and imaging tests to assess the health condition of the dog and cat
	2. Student can correctly read and interpret the results of tests used in laboratory diagnostics
	3. Student knows the rules of functioning each of the imaging methods
	Social competence:
	1. Student can interact and work in a group, taking on different roles in it
2. Student analyzes the knowledge and commitment of the animal's carer / owner and his psychological and economic predispositions	
First and additional requirements	-
Description of module	Basics of dog and cat physiology. Laboratory diagnostics. Basic blood morphology and biochemistry parameters. Basic methods of diagnostic imaging. Methods of molecular biology in diagnostics. Diagnostic distinctions of puppies and senile age.
Recommended list of references or obligatory books	Diagnostyka laboratoryjna wybranych jednostek chorobowych u psów / Anna Winnicka. Wyd. SI-

	<p>MA</p> <p>Diagnostyka ultrasonograficzna małych zwierząt / Paddy Mannion. Wyd. Triangulum</p> <p>Diagnostyka radiologiczna w weterynarii / [ed. by] Donald E. Thrall. Wyd. Elsevier Urban&amp;Schwartz</p> <p>K., Hutchinson T., Psy weterynaryjna praktyka kliniczna Wydawca: Edra Urban &amp; Partner, 2021.</p>
Planned teaching forms/actions/methods	<p>Teaching methods:</p> <p>Lecture: informative lecture illustrated with materials in the form of multimedia presentations</p> <p>Auditorium exercises: analysis of material presented in the form of multimedia presentations with a discussion on a given topic.</p> <p>Laboratory exercises: presentation of modern laboratory techniques - work in groups.</p>
Ways of verification and forms of documentation of learning outcomes	<p>3.0 - student shows a sufficient degree of knowledge or skills, obtains from 51 to 60% of the sum of points determining the maximum level of knowledge or skills in the subject,</p> <p>3.5 - a student shows a sufficient plus degree of knowledge or skills when he / she obtains 61 to 70% of the sum of points determining the maximum level of knowledge or skills in the subject,</p> <p>4.0 - the student shows good mastery of knowledge or skills, obtaining from 71 to 80% of the sum of points determining the maximum level of knowledge or skills in the subject,</p> <p>4.5 - the student shows a good level of knowledge or skills, obtaining from 81 to 90% of the sum of points determining the maximum level of knowledge or skills in the subject,</p> <p>5.0 - the student masters a very good range of knowledge or skills, obtaining above 91% of the sum of points determining the maximum level of knowledge or skills in the subject.</p> <p>Knowledge: assessment of the written final test</p> <p>Skills: independent interpretation of laboratory and imaging tests</p> <p>Social competences: activity during classes, discussion panel</p>
Elements and weights affecting the final grade	<p>The final grade is influenced by the average grade for the final written work (50%) and stage tests (50%). These conditions are presented to students and consulted with them during the first lecture.</p>

Balance of ECTS credits	<p><b>Contact</b></p> <ul style="list-style-type: none"> <li>- lectures 15 hours/0,6 ECTS</li> <li>- exercises 15 hours/ 0,6 ECTS</li> <li>- consultations 8 hours / 0, 32 ECTS</li> </ul> <p>Total contact hours 38 hours/ 1,52 ECTS</p> <p><b>Non – contact</b></p> <ul style="list-style-type: none"> <li>- preparation for exercise – 8 hours / 0,32 ECTS</li> <li>- studying literature – 16 hours / 0,64 ECTS</li> <li>- preparation for discussion – 5 hours / 0,20 ECTS</li> <li>- interpretation of research (8 hours /0,32 ECTS)</li> </ul> <p>Total non – contact 37 hours / 1,48 ECTS</p>
Workload related to classes requiring the direct participation of an academic teacher	participation in lectures – 15 hours; participation in exercises – 15 hours; consultations 8 hours
Relation of modular learning outcomes to directional learning outcomes	ABs1- K05; ABs2- K05 ABs1 -S02; ABs2 -S02; ABs3- S02; ABs1- Sc03; ABs2 -Sc03;