

Module code	M_WE_SEM3 ANAT 3
Field of study	Veterinary medicine
Module name, also the name in English	Animal anatomy 3
	Anatomia zwierząt 3
Language of instruction	English
Module type	Mandatory
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	5 (3.3/1.7)
Academic title/degree, name of the person responsible for the module	Lek. wet Sylwia Mozel
Unit teaching the module	Department of Animal Anatomy and Histology Sub-Department of Animal Anatomy
Module objective	The aim of the module is to teach students the correct macroscopic anatomy of the internal organs of domestic animals (dog, cat, cow, small ruminant, horse, pig). To teach students how to describe the anatomy, differentiate species, as well as identify individual systems and organs (digestive, vascular, respiratory, urinary, male and female sexual systems). To familiarise students with the macroscopic anatomy of the internal organs of birds. To familiarise students with detailed descriptions of sensory organs (eye, ear) and nervous systems (central, autonomic and enteric). To familiarise and teach students the correct use of Polish and Latin anatomical nomenclature concerning splanchnology. Acquiring basic knowledge applied in clinical anatomy, physiology, clinical and imaging diagnostics, pathomorphology, clinical subjects, subjects connected with breeding and rearing animals and hygiene of slaughter animals.
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. Student knows the general and detailed anatomy and species differences of the internal organs of different species of domestic animals.
	K2. Student knows the species differences in the structure of the various internal organs.
	K3. Student knows Polish and Latin anatomical nomenclature in the field of splanchnology.
	Skills:
	S1. Student recognises the species differences in the structure of the various internal organs.
	S2. Student can indicate the morphological relationships of internal organs forming a system and between systems.

	S3. Student uses correctly Polish and Latin anatomical nomenclature in the field of splanchnology, central and peripheral nervous system.
	Social competences:
	Sc1. Student understands the importance and morphological diversity of organs in different species of domestic animals, and is prepared to apply this knowledge in further study of clinical subjects.
	Sc2. Student is aware of the interdisciplinary importance of anatomical knowledge in the animal health assessment process.
	Sc3. Student critically assesses the extent of his/her knowledge and skills in splanchnology and is willing to extend this knowledge and improve these skills
Prerequisites and additional requirements	Credit for the module Animal Anatomy 2

<p>Module program content</p>	<p>Lectures:</p> <ol style="list-style-type: none"> 1. Discussion of the requirements for obtaining credit - 2 hours 2. Thoracic organs - 2 hours 3. Abdominal organs - 2 hours 4. Pelvic organs - 2 hours 5. General structure of the eye - 2 hours 6. Muscles of the eye - 2 hours 7. Accessory organs of the eye - 2 hours 8. Structure of the outer ear - 2 hours 9. Structure of the inner ear - 2 hours 10. Structure of the middle ear - 2 hours 11. Cerebral Meninges - 2 hours 12. Autonomic nervous system - 2 hours 13. Enteric nervous system - 2 hours 14. Peripheral nervous system - 2 hours 15. Central nervous system - 2 hours <p>Practical classes:</p> <ol style="list-style-type: none"> 1. Discussion and practical familiarisation with specimens of the cardiovascular system of domestic animals - 3 hours 2. Discussion and practical familiarisation with specimens of the respiratory system of domestic animals - 3 hours 3. Testing knowledge and skills of practical recognition of the structure of cardiovascular and respiratory systems - 3 hours 4. Discussion and practical familiarisation with the specimens of the initial sections of the digestive system (mouth, pharynx, oesophagus, stomach) of domestic animals - 3 hours. 5. Discussion and practical familiarisation with specimens of the digestive system (small intestine, large intestine, anus, glands of the digestive system) of domestic animals - 3 hours 6. Testing knowledge and skills of practical recognition of the structure of digestive system - 3 hours 7. Discussion and practical familiarisation with specimens of the urinary system of domestic animals - 3 hours 8. Discussion and practical familiarisation with specimens of the male reproductive system of domestic animals - 3 hours 9. Discussion and practical familiarisation with specimens of the female reproductive system of domestic animals - 3 hours 10. Testing knowledge and skills of practical recognition of the structure of urinary and reproductive systems - 3 hours 11. Dog exenteration - 3 hours 12. Horse exenteration - 3 hours 13. Discussion and practical familiarisation with the macroscopic anatomy of a bird - 3 hours.
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List of core and supplementary literature	<p>1.König H., Liebich H. – Veterinary Anatomy of Domestic Mammals, Georg Thieme Verlag.</p> <p>2.Dyce K.M., Sack W.O., Wensing C.J.G.-Textbook of Veterinary Anatomy, Elsevier</p> <p>3. Shaller O. Edited by: Constantinescu G.M.- Illustrated Veterinary Anatomical Nomenclature, Georg Thieme Verlag.</p> <p>4.Hermanson J.W., Lahunta A., Evans H.E. - Miller and Evans' Anatomy of the dog. Elsevier</p>		
Planned forms/activities/teaching methods	<p>Lecture - multimedia presentations, slides, museum pieces.</p> <p>Dissecting exercises - anatomical dissection</p>		
Verification methods and ways of documenting the achieved learning outcomes.	<p>In order to pass module 2, the student has to obtain three practical and theoretical (component) credits (pass tests) on: 1) respiratory and cardiovascular system 2) digestive system 3) genitourinary system. Each test is taken in oral form. Polish and Latin nomenclature is applicable in the answers. The examiner asks the student two theoretical questions concerning the structure, innervation, vascularisation and function of selected organs of the given system and one practical question consisting in indicating the organ or its part chosen by the examiner on the specimens (or in case of its absence on the teaching materials). The examiner evaluates the student's statement based on his/her knowledge and experience. The student is required to answer all questions satisfactorily. The answer to each question is scored on a scale of 2-5. The credit grade is based on the average of the grades for the individual questions. To get credit, it is necessary to pass all three tests. The final grade for module 3 shall be the arithmetic mean of the three tests. In addition, to pass module 3, attendance in at least 85% of the classes in the module plan is required.</p> <p>The final written exam consists of 80-100 questions (open format and multiple-choice questions). The questions cover both issues discussed during lectures and classes. In order to obtain a positive grade from the final examination, the student is obliged to obtain at least 50% of all possible points.</p> <p>Criteria used in grading the exam:</p> <p>0 - 50% - unsatisfactory</p> <p>51 - 56% - satisfactory</p> <p>61 - 69% - satisfactory plus</p> <p>64 - 71% - good</p> <p>72 - 84% - good plus</p> <p>85 - 100% - very good</p>		
ECTS credits	CONTACT		
		Hours	ECTS credits
	Lectures	30	1.2
	Practical classes	38	1,5
	Consultations	5	0,2
	retake tests	4	0,15
	Examination / retake examination	6	0,25

	TOTAL contact hours	83	3,3
	NON-CONTACT		
	Preparation for classes	10	0.4
	Literature study	15	0.6
	Preparation for the exam	18	0.7
	TOTAL non-contact hours/ ECTS credits	43	1.7
The workload of activities that requires direct participation of an academic teacher	Attendance at lectures	30	1.2
	Attendance at practical classes	38	1,5
	Consultations	5	0,2
	retake tests	4	0,15
	Examination / retake examination	6	0,25
	TOTAL with direct involvement of the teacher	83	3,3
Relation of module learning outcomes to course learning outcomes.	K1 --- A.W1. +++; A.W2. +++ K2 --- A.W3. ++ K3 --- A.W20. +++ S1 --- A.U6. +++; A.U13. +++; A.U15. +++ S2 --- A.U6. +++; A.U13. +++; A.U15. +++ S3 --- A.U13. +++; A.U15. +++; A.U21 +++ Sc1 --- K4) +++; K5) +++; K6) +++; K8) +++ Sc2 --- K4) +++; K8) +++; K9) +++ Sc3 --- K4) +++; K8) +++; K9) +++		
Elements and values affecting the final grade	Final grade for module 3: Credit 1 - value 33.33% Credit 2 - value 33.33% Credit 3 - value 33.33% The course grade is calculated on the basis of: the grade from module 1 (10%), the grade from module 2 (10%), the grade from module 3 (10%), and the grade from the final examination (70%).		