Module code	M_WE_SEM2 ANAT 2	
Field of study	Veterinary medicine	
Module name, also the name in English	Anatomia zwierząt 2	
	Animal anatomy 2	
Language of instruction	Polish	
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	1	
Semester of study in the field of study	11	
ECTS credits, divided into contact/non-	7 (3,5/3,5)	
contact hours		
Academic title/degree, name of the	Lek wet Sylwia Mozel	
person responsible for the module		
Unit teaching the module	Department of Animal Anatomy and Histology	
	Faculty of Animal Anatomy	
Module objective	The aim of the module is to teach students the correct (general and detailed) structure of the muscular, vascular and peripheral nervous systems of the head, neck, thoracic limb, pelvic limb (horse, dog). To teach students to present the structure of abdominal muscles and diaphragm in domestic animals. To teach student to provide a detailed description of individual muscles (origin, insertion, innervation, vascularisation and function). To familiarise students with the course and division of main vessels (arterial, venous, lymphatic), course and division of peripheral nerves, as well as the structure of nerve plexuses of head and neck, thoracic and pelvic limbs. To familiarise students with the structure of organa digitalia of the canine and ruminant including skeletal and muscular elements in relation to the layered structure of the integumentary system. To pass on the knowledge about the structure of the skin and its appendages (mammary gland, hair). To teach students the correct use of Polish and Latin anatomical nomenclature in the range of myology, angiology, peripheral nervous system and integumentary system and its appendages. To instil in the students the knowledge which forms the basis for toaching tenegraphical anatomy and clinical sciences.	
The learning outcomes for the module	Knowledge:	
include a description of the knowledge,	K1. Student knows the correct general and detailed structure	
skills and social competences that the	(origin, insertion, innervation, vascularisation and function) of	
student will gain after completing the	skeletal muscles.	
module.	K2. Student knows the location of the various skeletal muscles,	
	vessels, and nerves.	
	K3. Student knows the division and course of the major arterial	
	and venous vessels and peripheral nerves of the head and neck,	
	thoracic and pelvic limbs.	
	K4. Student knows Polish and Latin anatomical nomenclature in	
	the field of myology, angiology and peripheral nervous system.	

	Skills:
	S1. Student is able to independently dissect the muscles, vessels and nerves in the head and neck, thoracic limb and pelvic limb.
	S2. Student is able to identify individual muscles, blood vessels and nerves in the head and neck, thoracic limb and pelvic limb.
	S3. Student is able to explain differences between species concerning the structure and function of individual muscles and in the course of blood vessels and nerves.
	S4. Student is able to use Polish and Latin anatomical nomenclature in the field of myology, angiology and peripheral nervous system.
	Social competences:
	Sc1. Student is aware of the importance of interdisciplinary morphological knowledge in myology, angiology and the peripheral nervous system in the study of clinical subjects
	Sc2. Student is prepared to use and critically evaluate the scientific literature in myology, angiology, and the peripheral nervous system.
	Sc3. Student is able to correctly use anatomical nomenclature in the field of myology, angiology and peripheral nervous system.
	Sc4. Student is able to interact with other students while dissecting.
Prerequisites and additional	Credit for the module Animal Anatomy 1
requirements	

Module program content	Lectures:	
	1. Discussion of the module credit requirements, tests and the	
	rules for passing tests, recommended literature - 2 hours.	
	2. Organa digitalia of cows - 2 hours	
	3. Organa digitalia of cats and dogs - 2 hours	
	4. Anatomical structure of the diaphragm - 2 hours	
	5. Abdominal wall muscles part 1 - 2 hours	
	6. Abdominal wall muscles part 2 - 2 hours	
	7. Hernias, inguinal ring - 2 hours	
	8. General structure of the mammary gland - 2 hours	
	9. Detailed structure of the mammary gland - 2 hours	
	10. Innervation, vascularisation, mammary lymph nodes - 2	
	hours	
	11. Skin structure - 2 hours	
	12. Structure of hair, sweat and sebaceous glands - 2 hours	
	13. Skin innervation and vascularisation - 2 hours	
	14. General structure of the lymphatic system - 2 hours	
	15. Detailed structure of the lymphatic system - 2 hours	
	Practical classes:	
	1. Discussion and dissection of pectoral muscles of thoracic limb,	
	muscles of shoulder joint - 3 hours	
	2. Discussion and dissection of the muscles of the elbow joint,	
	radial-ulnar joint, carpal joint and muscles around phalanges of	
	the thoracic limb - 3 hours	
	3. Discussion and dissection of blood vessels and nerves of the	
	thoracic limb - 3 hours	
	4. Testing knowledge and skills of practical recognition of	
	muscles, blood vessels and nerves of the thoracic limb - 3 hours	
	5. Discussion and dissection of pectoral muscles of pelvic limb,	
	muscles of hip joint - 3 hours	
	6. Discussion and dissection of the muscles of the knee joint,	
	tarsal joints and muscles around phalanges of the pelvic limb - 3	
	hours	
	7. Discussion and dissection of blood vessels and nerves of the	
	pelvic limb - 3 hours	
	8. Testing knowledge and skills of practical recognition of	
	muscles, blood vessels and nerves of the pelvic limb - 3 hours	
	9. Discussion and dissection of the facial muscles. Discussion of	
	the CN VII - 3 hours	
	10. Discussion and dissection of the masseter muscles. Discussion	
	of the CN V - 3 hours	
	11. Discussion and dissection of blood vessels of head and neck.	
	Discussion of the CN IX, X - 3 hours	
	12. Discussion and dissection of the suboccipital muscles.	
	Discussion of the CN XII - 3 hours	
	13. Discussion and dissection of the neck muscles. Discussion of	
	the CN XI - 3 hours	
	14. Testing knowledge and skills of practical recognition of	
	muscles, blood vessels and nerves of the head and neck - 3 hours	

List of core and supplementary	1.König H., Liebich H. – Veterinary Ana	tomy of Domest	tic
literature	Mammals, Georg Thieme Verlag.		
	2.Dyce K.M., Sack W.O., Wensing C.J.G	iTextbook of V	eterinary
	Anatomy, Elsevier		
	3. Shaller O. Edited by: Constantinescu	I G.M Illustrate	d
	Veterinary Anatomical Nomenclature,	Georg Thieme \	/erlag.
	4.Hermanson J.W., Lahunta A., Evans I	H.E Miller and	Evans'
	Anatomy of the dog. Elsevier		
Planned forms/activities/teaching	Lecture - multimedia presentations, sli	ides, museum pi	eces.
methods	Dissecting exercises - anatomical disse	ction	
Verification methods and ways of	In order to pass module 2, the studer	nt has to get thr	ee practical
documenting the achieved learning	and theoretical (component) credits (pass tests) on tl	he anatomy
outcomes.	of 1) muscles, vessels and nerves of th	e thoracic limb,	2) muscles,
	vessels and nerves of the pelvic lim	b, 3) muscles,	vessels and
	nerves of the head, neck and back. Eac	ch of the tests ta	kes place in
	written form with adequate (studen	t-made) specim	nens of the
	above-mentioned body parts. During e	ach credit. stud	ents receive
	an answer sheet, in which they are su	pposed to first	identify the
	anatomical structures marked with dif	ferent coloured	pins on the
	specimen. During the test, the stude	nt is required to	o use Polish
	and Latin nomenclature. 1 point w	as given for e	ach correct
	answer. To get credit, it is necessary	to score at leas	t 50% of all
	nossible points. To get credit, it is nece	essary to pass all	three tests
	The final grade for module 2 shall be	the arithmetic r	nean of the
	three tests. In addition, to pass the	semester, atten	dance in at
	least 85% of the classes in the module	plan is required	
ECTS credits		plantis required	•
		Hours	ECTS
			credits
	Lectures	30	1.2
	Practical classes	41	1,62
	Consultations	5	0,2
	retake test	6	0,24
	Examination / retake examination	6	0,24
	TOTAL contact hours	88	3,5
	NON-CONTA	СТ	
	Preparation for classes	25	1
	Literature study	25	1
	Preparation for the exam	36	1,5
	TOTAL non-contact hours	86	3,5
The workload of activities that requires	Attendance at lectures	30	1.2
direct participation of an academic	Attendance at practical classes	41	1,62
teacher	Consultations	5	0,2
	retake test	6	0,24
	Examination / retake examination	6	0,24
	TOTAL with direct involvement of	88	3,5
	the teacher		

Relation of module learning outcomes	K1 A.W1. ++; A.W2. ++
to course learning outcomes.	K2 A.W1. ++; A.W2. ++
	K3 A.W1. ++; A.W2. ++
	K4 A.W20. ++
	S1 A.U6. ++; A.U13. ++; A.U15. ++
	S2 A.U6. ++; A.U13. ++; A.U15. ++
	S3 A.U6. ++; A.U13. ++; A.U15. ++
	S4 A.U15. ++
	Sc1 K4) ++; K8) ++
	Sc2 K4) ++; K8) ++; K9) ++
	Sc3 K4) ++; K8) ++;
	Sc4 K9) ++
Elements and values affecting the final	Credit 1 - value 33.33%
grade	Credit 2 - value 33.33%
	Credit 3 - value 33.33%