Module code	M_WE_ SEM1 ANAT 1		
Field of study	Veterinary medicine		
Module name, also the name in English	Anatomia zwierząt 1		
	Animal anatomy 1		
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			
Semester of study in the field of study	1		
ECTS credits, divided into contact/non-	7 (3,5/3,5)		
contact hours	7 (3,3/3,3)		
Academic title/degree, name of the	Lek wet Sylwia Mozel		
person responsible for the module	Lek wet Sylwid Wiozel		
Unit teaching the module	Department of Animal Anatomy and Histology		
one teaching the module	Faculty of Animal Anatomy		
Module objective	The objective of the module is to teach students the proper		
Wiodale objective	structure of the skeletal system and bone connections in different		
	species of domestic animals (i.e. dog, cat, cow, small ruminants,		
	pig, horse). To acquire the ability to describe in detail the		
	individual bones of the companion and farm animals mentioned		
	above. To master knowledge of species identification of individual		
	bones (dog, cat, cow, small ruminants, pig, horse) and interspecies		
	differences regarding these bones. To acquaint and teach students		
	how to correctly use Polish and Latin anatomical nomenclature. To		
	impart knowledge that provides a foundation for learning		
	arthrology, myology, splanchnology, and topographic anatomy. To		
	familiarize students with the origin and general structure of bones,		
	bone and muscle connections. To impart anatomical fundamentals		
	regarding the mechanism of movement resulting from the		
	interrelationships between bones, muscles and bone connections		
	and their integration at the body level. To familiarize students with		
	the structure of the toe organ of the horse including skeletal and		
	muscular elements in relation to the layered structure of the		
	common body shell.		
The learning outcomes for the module	Knowledge:		
include a description of the knowledge,	K1. Students knows the correct general structure of bones, bone		
skills and social competences that the	and muscle connections, and the detailed structure of the		
student will gain after completing the	skeletal system of domestic animals.		
module.	K2. The student knows the morphological differences in		
module.	macroscopic bone structure and bone junctions in domestic		
	animals.		
	K3. The student knows Polish and Latin anatomical nomenclature		
	in the field of osteology and arthrology.		
	Skills:		
	S1. Is able to identify individual anatomical structures on bone		
	preparations of various domestic animal species.		

	S2. Recognizes the species affiliation of bones based on their morphological characteristics.
	S3. Correctly identifies and describes types of bone connections.
	S4. He or she has acquired the ability to use Polish and Latin anatomical nomenclature in osteology and arthrology.
	Social competences:
	Sc1. Is aware of the importance of morphological knowledge in osteology and arthrology in the study of clinical subjects.
	Sc2. Is prepared to use and critically evaluate the scientific literature in osteology and arthrology.
	Sc3. Is prepared to correctly use anatomical nomenclature in osteology and arthrology.
	Sc4. Is able to interact with other students in the study of osteology and arthrology.
Prerequisites and additional requirements	None

Module program content

Lectures:

- 1. Introduction to Animal Anatomy. Discussion of the credit requirements for the course. Rules of conducting partial credit, rules of giving final, semester and course grades. Recommended literature 2 hrs.
- 2. The origin of bones and their division 2 hrs.
- 3. Microscopic structure of bone 2 hrs.
- 4. Macroscopic structure of bone 2 hrs.
- 5. Hyoid bone, hyoid bone 2 hrs.
- 6. Spinal cord, anatomical structure of the vertebra 2hrs.
- 7. Sacrum, caudal vertebrae 2 hrs.
- 8. General anatomical structure of muscles 2 hrs.
- 9. Muscle division 2 hrs.
- 10. Muscle accessory organs 2 hrs.
- 11. General structure of the joint, joint capsule 2 hrs.
- 12. Division of joints 2 hrs.
- 13. Toe organ of the horse general structure 2 hrs.
- 14. Toe organ of the horse detailed structure 2 hrs.
- 15. Vascularization of the equine toe organ 2 hrs.

Practical classes:

- 1. OSH Discussion of the structure and recognition of structures on the occipital bone 3 hrs.
- 2. Discussion of the structure and recognition of structures on the bones: pre-cingulate, basal-cingulate, parietal, interparietal 3 hrs.
- 3. Discussion of the structure and recognition of structures on the bones: frontal, temporal 3 hrs.
- 4. Discussion and identification of structures on the bones: maxillary, intermaxillary, nasal, zygomatic, and lacrimal 3 hrs.
- 5. Discussion and identification of structures on the palatal and pterygoid bones, lemma and mandible 3 hrs.
- 6. Recognition of the cervical, thoracic, and lumbar vertebrae and discussion of the structure and recognition of the rib bones 3 hrs.
- 7. Discussion of the structure and identification of structures on the humerus, sternum, scapula 3 hrs.
- 8. Discussion of the structure and identification of: structures on the bones of the forearm, wrist, metacarpus, and finger bones of the thoracic limb 3 hrs.
- 9. Discussion of the structure and recognition of structures on the sacrum, pelvic bone 3 hrs.
- 10. Discussion of the structure and recognition of structures on the femur, patella, and recognition of caudal vertebrae 3 hrs.
- 11. Discussion of the structure and recognition of: structures on the bones of the lower leg, tarsus, recognition of the metatarsals, bones of the pelvic limb fingers 3 hrs.
- 12. Joint preparation of the thoracic and pelvic limb 3 hrs.
- 13. Checking the knowledge of macroscopic structure of bones and ability to correctly recognize them and the structures occurring on them 3 hrs.

	14. Joint preparation of the tho	racic and pelv	ic limb - 3 hours			
List of core and supplementary						
literature	Mammals, Georg Thieme Verlag.					
	2.Dyce K.M., Sack W.O., Wensing C.	J.GTextbook	of Veterinary			
	Anatomy, Elsevier		,			
		3. Shaller O. Edited by: Constantinescu G.M Illustrated				
	Veterinary Anatomical Nomenclatur					
		4.Hermanson J.W., Lahunta A., Evans H.E Miller and Evans'				
	Anatomy of the dog. Elsevier					
Planned forms/activities/teaching	Lecture - multimedia presentations, slides, museum pieces.					
methods	Dissecting classes - bone preparations, joint preparations.					
Verification methods and ways of		During module I one theoretical-practical credit is provided for the				
documenting the achieved learning	material covered during osteology		•			
outcomes.		of the macroscopic structure of the bones of the skull, the ability				
	to recognize them and identify th		•			
	Credit is also given for knowledge	Credit is also given for knowledge of macroscopic structure and				
	the ability to correctly identify the bo	ones of the ext	remities, thorax			
	and spine. The osteology colloqui	and spine. The osteology colloquium is taken orally on bone				
	specimens. The examiner will as	k three desc	criptive general			
	knowledge questions about the bon	knowledge questions about the bones of the skull (1 question), the				
	bones of the thoracic limb, the spir	bones of the thoracic limb, the spine, the bones of the thorax (1				
	question), and the bones of the p	pelvic limb (1	question). The			
	student is required to answer all of	questions satis	sfactorily. Polish			
	and Latin nomenclature is applicable in the answers. After the					
	general questions, the colloquium instructor randomly selects					
	several bones for identification. The answer to each question is					
	scored on a scale of 2-5, as judged by the examiner based on his					
	or her knowledge and experience. An average is taken from the					
	partial marks for each question to give a final mark for the module					
	A passing grade on the colloquium is required to pass Module I. Ir					
	addition, attendance at at least 85% of the exercises in the module					
	plan is required to pass the course.					
ECTS credits	CONTACT					
		Hours	ECTS			
			credits			
	Lectures	30	1.2			
	Practical classes	41	1,62			
	Consultations	5 6	0,2			
	Retake test	6	0,24			
	Examination / retake examination TOTAL contact hours	88	0,24			
	TOTAL contact hours 88 3,5 NON-CONTACT					
	Preparation for classes	25	1			
	Literature study	25	1			
	Preparation for the exam	36	1,5			
	TOTAL non-contact hours/ ECTS	86	3,5			
	credits					
	Attendance at lectures	30	1.2			

The workload of activities that requires	Attendance at practical classes	41	1,62
direct participation of an academic	Retake test	5	0,2
teacher	Consultations	6	0,24
	Examination / retake examination	6	0,24
	TOTAL with direct involvement of	88	3,5
	the teacher		
Relation of module learning outcomes	W1 A.W1. +; A.W2. +		
to course learning outcomes.	W2 A.W1. +; A.W2. +		
	W3 A.W20. +		
	U1 A.U6. +; A.U13. +; A.U15. +		
	U2 A.U6. +; A.U13. +; A.U15. +		
	U3 A.U6. +; A.U13. +; A.U15. +		
	U4 A.U6. +; A.U13. +; A.U15. +		
	K1 K8) +		
	K2 K4) +		
	K3 K4) +		
	K4 K9) +		
Elements and values affecting the final	Credit - 100% of value		
grade			