Module code	M_WE_SEM4 ANAT TOP
Field of study	Veterinary medicine
Module name, also the name in English	Topographic Anatomy
_	Anatomia topograficzna
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	IV
ECTS credits, divided into contact/non-	3 (2/1)
contact hours	
Academic title/degree, name of the	Dr Małgorzata Matysek
person responsible for the module	-
Unit teaching the module	Department of Animal Anatomy and Histology
	Faculty of Animal Anatomy
Module objective	This module aims to familiarise students with the correct
	arrangement of the organs of domestic animals (dog, cat, horse,
	cow, small ruminants, pig). Students are familiarised with
	skeletotopy, holotopy, syntopia, organ idiopia and stratigraphy of
	body regions. Students are familiarised with the principles of
	delineation of body regions and the principles of spatial
	positioning of the animal body (in relation to axes, planes and
	directions). Discussion of the determinants and anatomical basis
	of selected clinical procedures. Students are familiarised with the
	correct use of Polish and Latin anatomical nomenclature
	concerning topographical anatomy. Indication of how knowledge
	of topographic anatomy is applied to clinical and imaging
	diagnostics, pathomorphology, clinical courses, courses
	concerning animal husbandry and slaughter animal hygiene.
The learning outcomes for the module	Knowledge:
include a description of the knowledge,	K1. The student is familiarised with skeletotopy, holotopy,
skills and social competences that the	syntopia, idiopia of internal organs, and stratigraphy of body
student will gain after completing the	regions.
module.	K2. The student knows the principles of dividing the body into
	regions, the principles of body positioning and they can accurately
	determine the topography of structures and organs in different
	species of domestic animals (dog, cat, horse, cow, small
	ruminants, pig).
	K3. The student knows Polish and Latin anatomical nomenclature
	in the field of topographic anatomy.
	Skills:
	S1. The student is able to determine the correct position of
	structures and organs in the body in different animal species using
	various methods.
	S2. The student is able to delineate various parts and areas of the
	animal body.

	S3. The student uses correctly Polish and Latin anatomical
	nomenclature in the field of topographical anatomy.
	Social competences:
	Sc1. The student understands the need for consolidation of their
	knowledge and lifelong learning.
	Sc2. The student demonstrates independence in action, can
	formulate their own opinions, is aware of their consequences,
	especially those that affect human and animal health.
Prerequisites and additional	Passing grade in Animal Anatomy 3
requirements	

Module program content	Lectures:
	<ol> <li>Discussion of the requirements for passing the course - 1 hour</li> <li>Importance of topographic anatomy in diagnostics, diagnostic imaging and clinical sciences - 1 hour.</li> <li>Anatomical position and axes used in topographic anatomy - 1 hour.</li> <li>Planes used in topographic anatomy - 1 hour.</li> <li>Directions used in topographic anatomy - 1 hour.</li> <li>Cardiac region, major points - 1 hour.</li> <li>Cardiac region in clinical aspect - 1 hour.</li> <li>Sternal and pre-sternal regions in clinical aspect - 1 hour.</li> <li>Subcostal region and the region of ensiform cartilage in clinical aspect - 1 hour.</li> <li>Lateral abdominal region in clinical aspect - 1 hour.</li> <li>Umbilical, inguinal and pubic region in clinical aspect - 1 hour.</li> <li>Sacral, gluteal and buttock regions in clinical aspect - 1 hour.</li> <li>Anal and caudal regions in clinical aspect - 1 hour.</li> <li>Genitourinary region in clinical aspect - 1 hour.</li> <li>Genitourinary region in clinical aspect - 1 hour.</li> </ol>
	<ol> <li>Topography of external topographic points on the body - 2 hrs.</li> <li>Topography of organs available for clinical examination on the head and neck - 2 hours.</li> <li>Topography of the thoracic organs in horses and cows - 2 hours.</li> <li>Credit pass 1 - 2 hrs.</li> <li>Topography of the thoracic organs in dogs and cats - 2 hours.</li> <li>Topography of the abdominal organs in horses and cows - 2 hours.</li> <li>Topography of the abdominal organs in dogs and cats (demonstration) - 2 hours.</li> <li>Credit pass 2 - 2 hrs.</li> <li>Topography of the pelvic cavity organs in horses and cows - 2 hours.</li> <li>Topography of the pelvic cavity organs in dogs and cats - 2 hours.</li> <li>Topography of the thoracic limb - 2 hours.</li> <li>Topography of the pelvic limb - 2 hours.</li> </ol>
	<ul><li>13. Credit pass 3 - 2 hrs.</li><li>14. Demonstration using ultrasound technology to locate internal organs in dogs and cats - 2 hours.</li><li>15. Retake tests</li></ul>
List of core and supplementary literature	<ol> <li>König H., Liebich H. – Veterinary Anatomy of Domestic Mammals, Georg Thieme Verlag.</li> <li>Dyce K.M., Sack W.O., Wensing C.J.GTextbook of Veterinary Anatomy, Elsevier</li> <li>Shaller O. Edited by: Constantinescu G.M Illustrated Veterinary Anatomical Nomenclature, Georg Thieme Verlag.</li> <li>Hermanson J.W., Lahunta A., Evans H.E Miller and Evans' Anatomy of the dog. Elsevier</li> </ol>

Planned forms/activities/teaching	Lectures, multimedia presentations,	demonstrations	concerning	
methods	dead animals, exercises performed on live animals (dog, horse),			
methods	•	the use of diagnostic imaging techniques, discussion.		
Verification methods and ways of			aro throo	
•	During the Topographical Anatomy module there are three practical and theoretical credits concerning 1) external body			
documenting the achieved learning				
outcomes.	regions and organ topography of the head and neck, 2) thoracic			
	and abdominal topography, 3) pelvic cavity, thoracic limb and			
	pelvic limb topography. Credit tests in			
	during the classes and they are given		-	
	part) and oral (practical part) form. The theoretical part consists of			
	5-6 open-ended questions. The pr	-		
	question, during which the student in		•	
	or location of an organ in relation to		_	
	colloquium, the student is required	d to use Polish	n and Latin	
	nomenclature. 1 point was given for	each correct an	iswer. More	
	than 50% of the possible points	are required t	o pass the	
	colloquium. To get credit this module	e, it is necessar	y to pass all	
	three tests. The final grade for module shall be the arithmetic			
	mean of the three tests. In addition, a	ttendance at at	least 85% of	
	the exercises in the module plan is red	quired to pass th	ie course.	
	The written final exam consists of open-ended and closed-ended			
	questions. The questions cover bot	th issues discu	ssed during	
	lectures and classes. In order to obtain	in a positive gra	de from the	
	final examination, the student is oblig	ed to obtain at	least 50% of	
	all possible points.			
	Criteria used in grading the exam:			
	0 - 50% - unsatisfactory			
	51 - 56% - satisfactory			
	57 - 69% - satisfactory plus			
	64 - 71% - good			
	72 - 84% - good plus			
	85 - 100% - very good			
ECTS credits	CONTACT HO	URS		
		Hours	ECTS	
			credits	
	Lectures	15	0.6	
	Practical classes	30	1.2	
	Consultations	3	0.1	
	Examination / retake examination	3	0.1	
	TOTAL contact hours	51	2.0	
	NON-CONTACT HOURS			
	Preparation for classes	10	0.4	
	Literature study	6	0.2	
	Preparation for the exam	10	0.4	
	TOTAL non-contact hours/ ECTS credits	26	1.0	
	Attendance at lectures	15	0.6	
	Attendance at practical classes	30	1.2	
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The workload of activities that requires	Consultations	3	0.1		
direct participation of an academic	Examination / retake examination	3	0.1		
teacher	TOTAL with direct involvement of	51	2.0		
	the teacher				
Relation of module learning outcomes	K1 A.W2. +++				
to course learning outcomes.	K2 A.W2. ++				
	K3 A.W20. +++				
	S1 A.U6 +; A.U13 ++				
	S2 A.U6. ++; A.U13. +				
	S3 A.U21 ++ Sc1 K8) +				
	Sc2 K1) ++				
Elements and values affecting the final	Course grade:				
grade	Credit 1 - value 33.33%				
	Credit 2 - value 33.33%				
	Credit 3 - value 33.33%				
	The course grade is calculated based on the grade for the n (10% value) and the grade for the final examination (90% value)				