Module title:			Topographic anatomy						4		
Polish translation:		Anatomia topograficzna									
Course:		Veterinary Medicine									
	Module la	nguage:	Fnglish				Stage	: JM-FVM			
Form of	intramur		Type of ■ basic ■ mandatory Semester: 4						■ winter semester		
	extramu		module: directional elective			□ summer semester					
					Academic year:	2022/2023 Catalogue number:		•	FVM-V-JMSS-04S- B04 20		
								501	_20		
Module coordina	itor:		Dr hab. Michał Skibniewski								
Teachers respons	sible for the	ġ.	Academic teachers of the Institute of Veterinary Medicine; Department of Morphological Sciences/PhD students in accordance to the internal legal acts; visiting professors; other specialists in the field of study								
Objectives of the module:			The aim of the subject is to teach students about position of organs and structures in animal organism (dog, horse, cattle) in accordance to their skeletotopic, holotopic, syntopic and stratigraphic features. The aim of the subject is also to teach students spatial vision of the organism, which is the base for physical clinical examination, veterinary treatments as well as interpretation of results of diagnostic imaging. Among the main objectives of the subject is also showcasing of relation between specific anatomy of certain species and pathogenesis of the most common diseases; establishing base for further studies of clinical subjects such as clinical diagnostics, surgery or patomorphology and allowing the students to obtain skills in safe contact with a live animal during basic clinical examination. Lectures: 1) Head, neck, back - 3h; 2) Thoracic limb, pelvic limb - 3h; 3) Chest - 2h; 4) Abdomen - 4h; 5) Pelvic cavity - 3h; Exercises: 1) Head, neck, back (dog, cattle, horse - 2h exercises with each species) - 6h; 2) Thoracic limb, pelvic limb (dog, cattle, horse - 2h exercises with each species) - 6h; 3) Chest wall and cavity (dog, cattle, horse - 2h exercises with each species) - 6h; 5) Practical-theoretical credit - first term 2h; 6) Practical-theoretical credit - second term; 7) Credit for students with an excused absence - 2h The learning content of the lectures is complementary to the learning content of the exercises.								
Teaching forms, number of hours:			a) Lectures; hours 15; b) Laboratory classes; hours 30;								
Teaching methods:			Lectures: Presentations showing skletotopy, syntopy, holotopy and stratigraphy of structures and organs located in certain body areas. Description of anatomical features in accordance to clinical aspects with presentations of materials obtained during surgical interventions and diagnostic procedures with special regard to diagnostic imaging. Laboratory classes: Detailed description and demonstration on live animal (dog, horse, cattle) position and projection of certain structures and organs onto body surface; discussion of osseous structures making orientation landmarks during biopsies, injections and surgical interventions combined with palpation of abovementioned elements by the students under supervision of an academic teacher. Having students perform basic clinical activities making a base for further clinical studies. Those include: puls measurement, mucous membranes observation, palpation of lymph nodes, heart and lungs auscultation, estimation of lung fields, auscultation and palpation of abdominal and pelvic organs, limbs palpation, estimation of position of vascular trunks and nerves. Detailed schedule of the classes and detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.								
Formal prerequis requirements:	sites and ini	tial	Having passed A								
Learning effects			Course outco	mes:				Learning outcomes relative to the course outcomes	Impact on the course outcomes*		
		1	knows stratigra selected domes		by, holotopy and syntop	y of structure	-	A.W.1, A.W.2 B.W.1	3 1		
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		4	knows and ur pathogenesis o		ation between anaton ses	ny of certain		A.W.1, A.W.2, A.W.20	3		
		5			tance of certain structu	res and orgar	is in clinical	A.U.6, A.U.21, B.U.3, B.U.16, B.U.17, C.U.2	3 3 3 2		

Skills: 1				A.U.13, A.U.14,	2				
Skills: 1				A.U.19					
Skills: 2					1				
Skills: 1					2				
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Skills: 2 Skills: A.U.5, A.U.23 1 1 1 1 1 1 1 1 1									
Skills: 2 Skills:									
Skills: 2 Skills:				A.U.16, A.U.23					
Skills: 2				A.U.6, A.U.21,					
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Skills: Aut 12, Aut 13, 1		2							
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Absence during tests need to be excused no later than 1 week after the absence's cause has finished. Additional terms should be set for students with excused absences. Unexcused absence is equal to obtaining 0 points.
No extra assessment methods are anticipated.
eHMS entry.
Records collected in the course portfolio i.e. individual records of student results, presence lists, database of oral and writter questions, written assessments of the students.
Oral practical-theoretical test 100%
Lecture room in building 24, prosectories in Division of Comparative and Clinical Anatomy, Department of Large Anima Diseases with Clinic, Obory Cattle Farm

- $1.\ H.E.\ Koenig,\ Veterinary\ Anatomy\ Domestic\ Mammals\ -\ Textbook\ and\ Colour\ Atlas.\ Blackwell\ Science.\ 2006$
- 2. K. M. Dyce, Wolfgang O. Sack, C. J. G. Wensing Textbook of Veterinary Anatomy 4th edition. Elsevier. 2010
- 3. Done S.H., Goody P.C., Evans S.A., Strickland N.C. Color Atlas of Vetreinary Anatomy. The Dog&Cat, Mosby, 2005
- 4. Wissdorf H., Gerhards H., Huskamo B., Deegen E. Praxisorientierte anatomie Und propädeutik des pferdes. Verlag M&H. Schaper Alfred, Hannover, 2002
- 5. Constantinescu G.M. Guide pratique d'anatomie du chien et du chat. MED'COM, Paris, 2005
- 6. Berg R. Angewandte und Topographiische Anatomie der Haustiere. G.F. Verlag Jena, 1973
- 7. Relevant scientific publications, including those of the module coordinator.

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ANNOTATIONS

Quantitative summary of the module:

Estimated number of work hours per student (contact and self-study) essential to achieve presumed learning outcomes of the module - base for quantifying ECTS:			
Total ECTS points, accumulated by students during contact learning:	2 ECTS		

^{* 3 –} complete and detailed, 2 – moderate, 1 – basic.