Module title:	Comparative anatomy of animals	**ECTS**	**4**
Polish translation:	Anatomia porównawcza zwierząt		
Course:	**Veterinary Medicine**		

Module language: English		Stage: JM-FVM	
Form of studies: ■ intramural ☐ extramural	Type of module: ■ basic ■ mandatory ☐ directional ☐ elective	Semester: 3.	■ winter semester ☐ summer semester
Academic year:	**2023/2024**	Catalogue number:	FVM-V-JMSS-03W-B03_23

Module coordinator:	Dr hab. Małgorzata Dzierzęcka		
Teachers responsible for the module:	Academic teachers of the Institute; 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 the students the proper anatomical position of musculature, lymph nodes, blood vessels and nerves in domestic animals (dog, cat, horse), accounting for the clinical aspects. Detailed arthrology knowledge; establishing proper foundation for further studies of Topographical anatomy, Physiology, Clinical diagnostics, Pathological anatomy, subjects connected with animal husbandry as well as slaughter animals' hygiene. Among the main objectives of the subject is also teaching the students correct usage of surgical instruments as well as knowledge on anatomical limitations of surgical interventions.		
Teaching forms, number of hours:	Laboratory classes – anatomical preparation of animals, presentations, 45 hours		
Teaching methods:	Anatomical preparation of animal carcasses (dog, cat, horse) by students under supervision of an academic teacher with regard to structures important in practice. Detailed schedule will be defined by the coordinator of the course at the beginning of semester. Detailed organization of consultations will be defined by the coordinator of the course at the beginning of semester.		
Formal prerequisites and initial requirements:	Having passed "Animal anatomy"		
Learning effects	Course outcomes:	Learning outcomes relative to the course outcomes	Impact on the course outcomes*
Knowledge:	1	Student knows and describes proper structures of animal organism	A.W.1, A.W.2, C.U.2 A.W.3, B.W.1, B.W.4, B.W.19	3 2
	2	Student knows anatomy, describes and explains functions of certain systems in animal organism (respiratory, digestive, circulatory, motor, reproductive, hormonal, immunological and common integument	A.W.1, A.W.2, C.U.2 A.W.3, B.W.1, B.W.4, B.W.19	3 1
	3	Student is able to use English and Latin medical nomenclature	A.W.1, A.W.2, C.U.2, A.W.3, B.W.1, B.W.4, B.W.19	3
	4	Student determines position and function of muscles, position of blood vessels and nerves as well as anatomy of joints in selected species	A.W.20	3
	5	Student estimates proper anatomical structure of animal organism	A.U.6, A.U.21, B.U.3, B.U.16, B.U.17, C.U.2	3

	6	Student knows differences between species, breeds and morphotypes in anatomy of certain structures and organs	A.U.13, A.U.14, A.U.19	2
	7	Student understands the importance of certain structures and organs in clinical practice	A.U.12, A.U.15, A.U.16, A.U.23	1
Skills:	1	Student is able to listen to and answer in clear, concise language	A.U.6, A.U.21, B.U.3, B.U.16, B.U.17, C.U.2	3
	2	Student understands the need for continuous education	A.U.13, A.U.14, A.U.19	3
	3	Student acquires skills to use basic surgical instruments in anatomical preparation	A.U.12, A.U.15, A.U.16, A.U.23	3
	4	Student acquires skills in soft tissues surgery	A.U.6, A.U.21, B.U.3, B.U.16, B.U.17, C.U.2	3
	5	Student knows own limitations during surgical intervention	A.U.13, A.U.14, A.U.19	2
	6	Student acquires the ability to make fast decisions during surgical interventions	A.U.12, A.U.15, A.U.16, A.U.23	1
Competences:	1	Student has a habit of constant improvement of knowledge and abilities	KS.4, KS.5, KS.6, KS.7,KS.8, KS.9	3
	2	Student is able to organize teamwork	KS.7, KS.8, KS.9	3
	3	Student has knowledge necessary for further education	KS.4, KS.5, KS.6	2
Objectives of the module required to obtain learning effects:		The aim of the subject is to teach the students the proper anatomical position of musculature, lymph nodes, blood vessels and nerves in domestic animals (dog, cat, horse, cattle), accounting for the clinical aspects. Detailed arthrology knowledge; establishing proper foundation for further studies of Topographical anatomy, Physiology, Clinical diagnostics, Pathological anatomy, subjects connected with animal husbandry as well as slaughter animals' hygiene. Among the main objectives of the subject is also teaching the students correct usage of surgical instruments as well as knowledge on anatomical limitations of surgical interventions.		
Assessment methods:		There are predicted three written tests, which will be held in accordance with the above schedule of classes. With each of the three credits will be available after a maximum of 24 points, making a total of 72 points. Points gained from each (three tests) will be added together at the end of the semester. The final evaluation will depend on the amount of credits received: Amounts of credits (points): — Assessment 67-72 — 5,0 61-66 — 4,5 55-60 — 4,0 49-54 — 3,5 43-48 — 3,0 42 - 0 — 2,0 On the **one before last exercise**, there will be held the second term of three credit tests for students whose absence from the first deadline was justified. persons absent from one of the three tests may take this test if the absence was excused. People absent from two tests write a test from the entire material. The permissible number of absences from classes is 3 (including classes where the tests were carried out) On the **last exercise** there will be open an accession for correcting the whole test material for students who have not obtained the required minimum of 42 points.		

*) 3 – detailed and advanced, 2- significant, 1 – basic

Mandatory and supportive materials :

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 3rd edition. Elsevier. 2002
3. Done S.H., Goody P.C., Evans S.A., Strickland N.C. Color Atlas of Vetreinary Anatomy. The Dog & Cat, Mosby. 2005
4. Relevant scientific publications, including those of the module coordinator.

ANNOTATIONS

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

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:	**120 h**
Total ECTS points, accumulated by students during contact learning:	**2 ECTS**