

Nazwa zajęć/ <i>Course title:</i>	<b>Anatomia zwierząt</b>	ECTS	<b>2</b>
Nazwa zajęć w j. angielskim/ <i>Course title in English:</i>	<b>Animal anatomy</b>		
Zajęcia dla kierunku studiów/ <i>Degree program name:</i>	Biotechnology		

Język kursu/ <i>Course language:</i>		English		Poziom studiów/ <i>Study level:</i>		I	
Typ studiów/ <i>Form of studies:</i>	X intramural .. extramural	Status zajęć/ <i>Course status</i>	podstawowe/ <i>Basic</i> X kierunkowe/ <i>major</i>	X obowiązkowe/ <i>mandatory</i> .. do wyboru/ <i>elective</i>	Semestr/ <i>Semester:</i>	2 semestr zimowy/ <i>winter semester</i> X semestr letni/ <i>summer semester</i>	
Rok akademicki/ <i>Academic year:</i>				2022/2023	Numer katalogowy/ <i>Catalogue number:</i>	BBT_BTa-1S-2L-16	

Koordinator zajęć/ <i>Course coordinator:</i>	<b>Dr. Tomasz Szara</b>						
Prowadzący zajęcia/ <i>Teachers responsible for the course:</i>	Employees and doctoral students of the Department of Comparative and Clinical Anatomy						
Założenia, cele i opis zajęć/ <i>Aims, objectives and description of the course:</i>	<p>The aim of the course is to acquaint students with the macroscopic general anatomical structures of domestic animals. An important aspect of these assumptions is the students' understanding of the logical correlation between the macroscopic structure and the basic functions fulfilled by specific organs and systems of the animal organism.</p> <p>Lectures (1) Presentation of the program and the rules of crediting. Movement apparatus: skeletal system, (2) bone connections, muscular system (3) respiratory system anatomy (4) digestive apparatus. (5) Genitourinary system. (6) Anatomy of the cardiovascular and lymphatic systems (7) Somatic and autonomic nervous system, endocrine glands (8) common sheath, (9) Sensory organs, (10) Elements of bird anatomy</p> <p>Classes (1) Principles of organizing prosectorial exercises. Movement organs, bones, muscles, body shell. (2) Respiratory and digestive systems. (3) Female and male urogenital system. Fetal membranes, placenta, endocrine glands. (4) Vascular system, hematopoietic organs, (5) somatic and autonomic nervous system, sense organs</p>						
Formy dydaktyczne, liczba godzin/ <i>Teaching forms, number of hours:</i>	<p>a) Lectures .....; number of hours ... 10</p> <p>b) Laboratory classes, dissection and microscopic exercises .....; number of hours ..15</p>						
Metody dydaktyczne/ <i>Teaching methods:</i>	Monographic lectures, demonstrations of animal anatomical preparations: bones, muscles, heart, blood vessels, isolated organs of the nervous, respiratory, digestive, urogenital systems, common shell elements, eyeball discussions, consultations, students' own work. Possibility of using distance learning when necessary (read e.g. pandemic)						
Wymagania formalne i założenia wstępne/ <i>Formal requirements and prerequisites</i>	Previously completed classes in the subject "Cell biology" The student has school knowledge in the field of the structure and functions of the human body						
Efekty uczenia się/ <i>Learning outcomes:</i>	treść efektu przypisanego do zajęć/ <i>the content of the effect assigned to the course:</i>					Odniesienie do efektu kierunkowego/ <i>Relation to the course outcomes</i>	Siła dla ef. kier*/ <i>Impact on the course outcomes*</i>
Wiedza (absolwent zna i rozumie) / <i>Knowledge: (the graduate knows and understands)</i>	W1	has knowledge of the macroscopic structure of organs and interspecies differences				K_W09	3
	W2	understands the relationship between the morphology and function of organs and the adaptation of the animal organism to the living environment				K_W03 K_W05 K_W09	3 3 3
Umiejętności (absolwent potrafi) / <i>Skills: (the graduate is able to)</i>	U1	is able to analyze and combine information on individual levels of the organization of an animal organism and its functioning				K_U04 K_U13 K_U21	2 3 1
Kompetencje (absolwent jest gotów do) / <i>Competences: (The graduate is ready to)</i>	K1	is ready to plan and conduct a biological experiment				K_K06 K_K01 K_K07 K_K02	2 2 1 3
Treści programowe zapewniające uzyskanie efektów uczenia się: / <i>Program contents ensuring the achievement of the learning outcomes:</i>	To acquaint students with the macroscopic general anatomical structures of domestic animals. Obtaining the understanding by students of the logical correlation between the macroscopic structure and the basic functions fulfilled by specific organs and systems of the animal organism. Issues such as: Movement apparatus: skeletal system, bone connections, muscular system, Anatomy of the respiratory system, Digestive apparatus, Genitourinary system, Anatomy of the cardiovascular and lymphatic systems, Somatic and autonomic nervous system, endocrine glands, Sensory organs, Elements of anatomy birds.						
Sposób weryfikacji efektów uczenia się / <i>Methods of the verification of the learning outcomes:</i>	activity during the discussion of a defined issue, written test,						

Szczegóły dotyczące sposobów weryfikacji i form dokumentacji osiągniętych efektów uczenia się /Details on the verification methods and of the ways of documenting the learning outcomes:	student evaluation sheet, written colloquium papers, entry into the eHMS system, the possibility of using distance education in necessary cases (e.g. pandemic).
Elementy i wagi mające wpływ na ocenę końcową/ <i>Elements and weights influencing the final grade:</i>	After the end of practical classes and lectures, a final test consisting of 25 open questions is planned. For each question the student can get a maximum of 2 points. The condition for passing the subjects is to obtain a minimum of 51% of the points from the test.
Miejsce realizacji zajęć/ <i>Teaching place:</i>	Lecture rooms, mortuary, if necessary, online classes (Teams)
Literatura / <i>Literature:</i>	
1) Podstawy anatomii zwierząt domowych. Przespolewska H., Kobryń H., Szara T., Bartyzel B., Wydawnictwo, Wieś jutra, Warszawa 2009.	
<b>UWAGI/ANNOTATIONS</b> Tests are assessed according to a scale of 51% of knowledge = satisfactory (3,) and, consequently, the thresholds 61% (3.5), 71% (4.0), 81% (4.5), 91% (5.0) In justified cases, the grade may be increased or decreased by a maximum of 0.5 degrees on the basis of the student's activity during classes	

\*) 3 – zaawansowany i szczegółowy, 2 – znaczący, 1 – podstawowy/ 3 – *significant and detailed*, 2 – *considerable*, 1 – *basic*,

Wskaźniki ilościowe charakteryzujące moduł/przedmiot/*Quantitative summary of the course:*

Szacunkowa sumaryczna liczba godzin pracy studenta (kontaktowych i pracy własnej) niezbędna dla osiągnięcia zakładanych dla zajęć efektów uczenia się - na tej podstawie należy wypełnić pole ECTS / <i>Estimated number of work hours per student (contact and self-study) essential to achieve the presumed learning outcomes - basis for the calculation of ECTS credits:</i>	47 h
Łączna liczba punktów ECTS, którą student uzyskuje na zajęciach wymagających bezpośredniego udziału nauczycieli akademickich lub innych osób prowadzących zajęcia/ <i>Total number of ECTS credits accumulated by the student during contact learning:</i>	1 ECTS