

**Subject card**

<b>Subject name and code</b>	Applied zoology, PG_00103600						
<b>Field of study</b>	Environmental Protection						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>				2026/2027	
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>				Optional subject group	
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	3	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	6	<b>ECTS credits</b>				1.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>				credit	
<b>Conducting unit</b>	Laboratory of Parasitology and General Zoology -> Katedra Zoologii Bezkręgowców i Parazytologii -> Faculty of Biology -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Sławomira Fryderyk				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	15.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	<p>To identify the importance of different animal groups for the environment, including positive and negative interactions between animals and humans.</p> <p>To be able to identify selected animal species, particularly beneficial animals and those that are pathogenic and considered pests in different types of environment. Knowledge of the biology of alien species, including invasive species, and their impact on the environment and native fauna.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OŚL3_W05] Explains the course of natural and anthropopressional physical, chemical and biological processes and phenomena occurring in nature at various levels of matter organisation.	Knows and recognises selected animal species from natural environments and those that are the result of anthropopressure. Knows animal species useful to humans, including species of farmed, protected, pathogenic, pest, indicator, alien and invasive. Knows the species subject to various forms of protection. Understands the need to maintain diversity and describe the methods and forms of animal conservation	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[OŚL3_W08] Explains the mechanisms of economic and consumer pressure on the environment and recognises the possibilities of reducing it using the latest knowledge and scientific achievements.	Defines and understands the causes and prevention of imbalances in the qualitative and quantitative composition of animal organisms in the environment	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion
	[OŚL3_U04] Uses specialist language in the discussion and properly uses the nomenclature in the field of environmental protection and individual disciplines related to it.	Demonstrates the ability to identify animals of human use, including including farmed, protected, pathogenic, pest species, indicator, alien and invasive. Uses correct zoological terminology and nomenclature in the context of useful species for man	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
[OŚL3_K05] Identifies the level of her/his knowledge and skills, demonstrates the need to update knowledge about the environment and its protection, demonstrates the need for continuous professional training and personal development.	Understands the need for further education.	[SK1] oral statement/conversation/ discussion [SK8] observation of student's independent or team work	
Subject contents	The exercise programme provides a practical introduction to selected groups of animals including, among others, pests, parasites, beneficial, indicator and alien species. beneficial, indicator and alien species. Practical species identification.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	practical skills test	51.0%	50.0%
	written test with open tasks	51.0%	50.0%
Recommended reading	Basic literature	Kawecki Z., Zoologia stosowana. PWN, Warszawa. 1988.	
	Supplementary literature	Błaszak C. (red.), Zoologia. T.1. Bezkręgowce. PWN, Warszawa. 2009. Błaszak C. (red), Zoologia. T. 2, Stawonogi, cz. 1, 2. PWN, Warszawa. 2011, 2012, Błaszak C. (red.), Zoologia. T. 3. Szkarłupnie - płazy, cz. 1. PWN Warszawa. 2015. Błaszak C. (red.), Zoologia. T. 3. Ssaki, cz. 3. PWN Warszawa. 2020. Rajski A., Zoologia. T. 1-2. PWN, Warszawa. 1997.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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