

Subject card

Subject name and code	Ecology, PG_00103623						
Field of study	Environmental Protection						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	Bachelor's studies	Subject group			Obligatory subject group in the field of study		
Mode of study	full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			2.0		
Learning profile	academic	Assessment form			exam		
Conducting unit	Laboratory of Avian Ecophysiology -> Department of Vertebrate Ecology and Zoology -> Faculty of Biology -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Agnieszka Ożarowska				
	Teachers		dr hab. Agnieszka Ożarowska				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Additional information: Lecture with multimedia presentation						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		5.0		15.0	50
Subject objectives	<p>1. Getting knowledge and understanding of basic ecological processes and relationships.</p> <p>2. Emphasizing the relationship between ecology and other fields of science.</p> <p>3. Developing awareness of the impact of human activity on the functioning of nature.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OŚL3_U09] Prepares in Polish/English a short description of research, observation or problem task carried out during classes using appropriate scientific terminology.	The student can present the results of his/her own experiments and field research, compare them with those obtained by others and interpret the differences	[SU4] test/exam - oral or written
	[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.	The student can characterize and explain ecological phenomena and processes	[SW4] test/exam - oral or written
	[OŚL3_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.	The student can work individually and in small teams	[SK8] observation of student's independent or team work
	[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.	The student understands and applies terminology used in ecology	[SU4] test/exam - oral or written
	[OŚL3_W06] Characterises levels of life organization, biodiversity and the interaction of organisms and the environment.	The student can determine the mutual relations in the organism-environment system and explain their basis	[SW4] test/exam - oral or written
[OŚL3_U11] Uses statistical methods as well as algorithms and IT techniques, including application software packages to describe environmental experiments and analysis of typical data in socio-economic activities based on science and natural sciences.	The student applies basic mathematical, statistical and computer techniques used in ecology to describe phenomena and analyze data used	[SU4] test/exam - oral or written	
Subject contents	Main ecological processes at different levels of organic life. Definitions and basic ecological concepts. Ecological interactions (organism-environment, individual-individual, species-species). Relationship of ecology and other branches of science. Characteristics of selected environments, geographic and ecological issues. Anthropogenization. Introduction to applied ecology.		
Prerequisites and co-requisites	Basic knowledge of biology		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written test	51.0%	50.0%
	attendance at classes	85.0%	50.0%
Recommended reading	Basic literature	1. Weiner J. Życie i ewolucja biosfery. PWN W-wa 2020 2. Krebs C.J. Ekologia eksperymentalna analiza rozmieszczenia i liczebności. PWN W-wa 2015	
	Supplementary literature	1. Begon M., Mortimer M., Thompson D.J.. Ekologia populacji : studium porównawcze zwierząt i roślin. Wydawnictwo. Naukowe PWN. 1999 2. Kozłowski S. 2000. Ekorozwój : wyzwanie XXI wieku. Wydaw. Naukowe PWN, 2000 3. Mackenzie A., Ball A.S., Virdee S.R. Ekologia. Krótkie wykłady. PWN W-wa 2015 4. Pullin A.S.. Biologiczne podstawy ochrony przyrody. Wydawnictwo Naukowe PWN. 2004 5. Futuyma D.J. Ewolucja. Wyd. Uniwersytetu Warszawskiego 2008 6. Wolański N. 2016. Ekologia człowieka. PWN (tomy I i II) 2016	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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