

Subject card

Subject name and code	Ecological basis of environmental protection, PG_00057722								
Field of study	Green Technologies								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
Education level	first-cycle studies		Subject group			Optional subject group			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			Polish			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessme	nent form		assessment			
Conducting unit	Laboratorium Genetyki Bakterii -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. Gracjana Klein-Raina						
of lecturer (lecturers)	Teachers		dr hab. Gracjana Klein-Raina						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	30.0	0.0	0.0	0.0		0.0	30	
	E-learning hours included: 0.0								
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		1.0		19.0		50	
Subject objectives	Presentation of the relationship between organisms, organisms and the environment, discussion about the main problems of environmental protection and species on a global and local scale in relation to ecological issues, biodiversity in ecosystems, familiarization with the main protected species, characteristics of selected National Parks and Reserves in Poland - protected species occurring there, their ecological relationships. The aim of the course will be not only to provide concise and clear information, but also to show how fascinating is ecology and environmental protection.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K6_W05] has an elementary knowledge of the fundamental concepts and problems of quality management, the general principles of creation and development of forms of individual entrepreneurship, application of the principles of work organization and integrated management, basic principles of quality control and analysis results; knowledge of basic legal aspects relating to the management of chemicals with particular emphasis on compounds polluting the environment and business, knows and understands the basic concepts and principles of the protection of industrial property and copyright and the need for management of intellectual property.	Students know the basic principles of environmental protection in connection with ecology and are able to manage and organize work aimed at environmental protection in accordance with applicable laws and regulations.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
	[K6_K06] has awareness of the importance of non-technical aspects and effects of engineering activities, including its impact on the environment and the associated responsibility for decisions.	Students are able to evaluate and discuss priorities in the protection of species and ecosystems. Students have a new approach to environmental protection in the 21st century.	[SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice [SK1] Assessment of group work skills			
	[K6_W04] is aware of the importance of environmental protection and has a basic knowledge of chemical and biological threats to the environment, with particular emphasis on anthropogenic factors, has a basic knowledge of knowledge of the principles of sustainable development as well as national and European environmental management conditions.	Students are able to evaluate and discuss key ecology and environmental issues.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation			
Subject contents	The concept of the species; mechanisms of the protection of new species; examples and protection of endangered species; competition between species and within species; predators and herbivores, parasitism; mutualism and commensalism; the basis of genetic diversity and its importance in environmental protection; the use of molecular techniques in ecology; biodiversity the role and its protection; new technologies in environmental protection; national parks and reserves.					
Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	passing the lectures	60.0%	100.0%			
Recommended reading	Basic literature	Elements of Ecology Thomas M. Smith and Robert Leo Smith (2012) 8 th Edition Ecology Michael L. Cain, William D. Bowman and Sally D. Hacker (2014) Third Edition Environmental Biology Mike Claver, Alan Lymbery, Jennifer McComb and Mike Bamford (2009)				
	Supplementary literature	Essentials of Conservation Biology Richard B. Primack (2006) Fourth Edition				
	eResources addresses	Adresy na platformie eNauczanie:				

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Example issues/ example questions/ tasks being completed	1. How are species arise?
	2. Modern methods of protecting endangered species.
	3. The role of biodiversity.
Work placement	Not applicable

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