

Subject card

Subject name and code	Ecological basis of environmental protection, PG_00057760								
Field of study	Green Technologies								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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			English			
Semester of study	1		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Laboratorium Genetyki Bakterii -> Faculty of Chemistry								
Name and surname	Subject supervisor		dr hab. Gracjana Klein-Raina						
of lecturer (lecturers)	Teachers	_							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	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, presentation of 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 dependencies. The aim of the course will be not only to provide concise and legible information, but also to show how fascinating ecology and environmental protection are.								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
knowledge concepts a manageme principles of developme entreprene the principle and integral basic principle and analyst basic legal manageme particular of compound environme and understand understand copyril	has an elementary e of the fundamental and problems of quality ent, the general of creation and ent of forms of individual eurship, application of les of work organization ated management, ciples of quality control sis results; knowledge of aspects relating to the ent of chemicals with emphasis on s polluting the ent and business, knows stands the basic and principles of the of industrial property ght and the need for ent of intellectual	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			
importance aspects ar activities, i the environ	nas awareness of the e of non-technical and effects of engineering ncluding its impact on a ment and the diresponsibility for	Students are able to evaluate and discuss key issues related to ecology and environmental protection.	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness [SK3] Assessment of ability to organize work [SK1] Assessment of group work skills			
importance protection knowledge biological t environme emphasis factors, ha knowledge sustainable as nationa	is aware of the e of environmental and has a basic e of chemical and threats to the ent, with particular on anthropogenic is a basic knowledge of e of the principles of e development as well I and European ental management	Students are able to assess and discuss priorities in the conservation of species and ecosystems. Students have a new approach to environmental protection in the XXI century.	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge			
endangere mutualism use of mole	the concept of species; mechanisms for the formation 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; use of molecular techniques in ecology; biodiversity - role and its protection; new technologies in environmental protection; national parks and reserves.					
Prerequisites and co-requisites						
Assessment methods Subj	ect passing criteria	Passing threshold	Percentage of the final grade			
and criteria passing le	ctures	60.0%	100.0%			
Recommended reading Basic litera	Basic literature Elements of Ecology Thomas M. Smith and Robert Leo Smith (2013) th Edition					
	Ecology Michael L. Cain, William D. Bowman and Sally D. Hacker (2014) Third Edition Environmental Biology Mike Claver, Alan Lymbery, Jennifer Mcland Mike Bamford (2009)					
Supplemen	Supplementary literature Essentials of Conservation Biology Richard B. Primack (2006) Fourth Edition					
eResource	eResources addresses Adresy na platformie eNauczanie:					

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

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