

Subject card

Subject name and code	Ecology - laboratory exercises, PG_00118078						
Field of study	Oceanography						
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027	
Education level	Bachelor's studies		Subject group			Obligatory subject group in the field of study Subject group related to scientific research in the field of study	
Mode of study	full-time studies		Mode of delivery			at the university	
Year of study	2		Language of instruction			Polish	
Semester of study	3		ECTS credits			2.0	
Learning profile	academic		Assessment form			credit	
Conducting unit	Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Aleksandra Zgrundo				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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		3.0		25.0	58
Subject objectives	Presentation of ecology as a scientific discipline using specific and proper concepts and research methods. It is assumed that the student, in addition to knowledge of basic concepts and techniques related to the study of ecological systems, will understand the importance of abiotic and biotic factors and processes influencing the structure and functioning of ecosystems. In addition, student will understand the importance of the impact of human activity on the functioning of the Earth's ecosystems and will learn the assumptions of the idea of sustainable development.						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
	OCEANL3-W02		Knows and understands the basic processes and phenomena occurring between living and non-living elements of the environment.			[SW3] text preparation/written work	
	[OCEANL3-K01] is willing to plan and implement, individually or as a team, the subsequent stages of the entrusted task, is willing to take responsibility for the results of these works, effectively cooperates in the team and performs various roles in it		Is ready to take responsibility for his/her own work and to comply with the principles of teamwork and responsibility for jointly implemented tasks.			[SK3] text preparation/written work [SK6] demonstration of practical skills [SK8] observation of student's independent or team work	
	OCEANL3-U12		Is able to systematically expand and update ecological knowledge.			[SU1] oral statement/conversation/discussion [SU3] text preparation/written work	

Subject contents	1. Methods of studying individuals and populations.		
	2. Populations group characteristics (including numbers, density, reproduction, mortality, age structure).		
	3. Selected issues in evolutionary ecology genetic drift.		
	4. Ecological tolerance.		
	5. Trophic interactions between organisms.		
	6. Competitive relationships.		
	7. Ecological succession.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Average of the grades from the entrance exams covering the content covered in the exercises	51.0%	35.0%
	Worksheets (assessed: scope and execution of research work, content - presentation and interpretation of data, language - use of specialist vocabulary and linguistic correctness)	51.0%	50.0%
	Activity and work during classes	51.0%	15.0%
Recommended reading	Basic literature	Begon M., Townsend C.R., Harper J.L. 2006. Ecology From Individuals to Ecosystems, Blackwell Publishing Ltd Falińska K. 1996. Ekologia roślin, (Podstawy teoretyczne, populacja, zbiorowisko, procesy), Wyd. PWN, Warszawa (in Polish) Kalinowska A. 2002. O Ekologii - wybór na Nowe Stulecie, Agencja Reklamowo-Wydawnicza A. Grzegorzczak, Warszawa (in Polish) Kawecka B., Eioranta P.N. 1994. Zarys ekologii glonów i środowisk śródlądowych. PWN, Warszawa (in Polish) Kronenberg J., Bergier T. (red.) 2010. Wyzwania zrównoważonego rozwoju w Polsce, Fundacja Sendzimira, ISBN 978-83-62168-00-25. (in Polish) Lampert W., Sommer U. 1996. Ekologia wód śródlądowych, Wyd. PWN, Warszawa (in Polish) Trojan P. 1975. Ekologia ogólna, Wyd. PWN, Warszawa (in Polish)	
	Supplementary literature	Selected scientific articles.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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