

Subject card

Subject name and code	Coastal ecosystems, PG_00154369						
Field of study	Natural Resources Conservation						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027		
Education level	undergraduate studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit	Pracownia Geobotaniki i Ochrony Przyrody -> Katedra Taksonomii Roślin i Ochrony Przyrody -> Faculty of Biology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Magdalena Lazarus				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	15.0	0.0	0.0	0.0	15
	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	15		2.0		8.0	25
Subject objectives	Familiarization with the richness and ecological diversity of coastal ecosystems found in Poland and around the world in relation to natural environmental factors (historical and contemporary) and human activity. Discussion of the causes, directions and effects of changes taking place in the diversity of these ecosystems.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OZPL3_U03] The graduate is able to search for and use available sources of biological information, including electronic sources, and critically analyse them	The student searches for and uses available sources of information, including electronic sources about ongoing scientific research projects in the field of functioning of organisms or ecosystems associated with the seashore.	[SU4] test/exam - oral or written [SU8] observation of student's independent or team work
	[OZPL3_W07] The graduate has an advanced understanding of the methods and means of nature and environmental protection, including nature monitoring	The student presents methods and means of protecting coastal ecosystems, including nature monitoring.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[OZPL3_K01] The graduate is ready to recognise the limitations in his/her own knowledge and understands the need for continuous learning and development	The student knows the limits of their own knowledge and understands the need for constant learning and development.	[SK8] observation of student's independent or team work
	[OZPL3_W05] The graduate understands the fundamental principles and mechanisms of life at the population, biocenosis, and ecosystem levels, as well as the temporal and spatial factors that influence biodiversity.	The student describes the mechanisms of functioning of organisms in various conditions of seaside environment.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[OZPL3_W06] The graduate has an advanced understanding of the names and types of natural environments, including their structural and functional characteristics	The student names the types of environments associated with the coast and characterizes their structural and functional aspects.	[SW4] test/exam - oral or written [SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
Subject contents	Types of coastal ecosystems occurring in Poland and around the world (selected examples). Specific environmental conditions associated with the seashore and the adaptation of organisms to function in these conditions. Characteristics of selected coastal ecosystems in terms of their genesis, functioning and succession. Zonation. Effects of soil salinity. Threats and protection of coastal ecosystems. Modern scientific research conducted in coastal ecosystems.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Final test	51.0%	80.0%
	Presentation evaluation	51.0%	20.0%
Recommended reading	Basic literature	Matuszkiewicz W. 2014. Przewodnik do oznaczania zbiorowisk roślinnych Polski. PWN, Warszawa. Piotrowska H. 2002. Zbiorowiska psammofilne na wydmach polskiego Brzegu Bałtyku. Acta Bot. Cassubica 3: 5-47. Piotrowska H. 2003. Zróżnicowanie i dynamika nadmorskich lasów i zarośli w Polsce. Bogucki Wyd. Nauk., Poznań-Gdańsk, 102 ss. + 47 tabel.	
	Supplementary literature	Adam P. 1990. Saltmarsh ecology. Cambridge University Press, 461 ss. Barbier, E. B., Hacker, S. D., Kennedy, C., Koch, E. W., Stier, A. C., Silliman, B. R. 2011. The value of estuarine and coastal ecosystem services. Ecological Monographs, 81: 169-193. Falińska K. 2004. Ekologia roślin. PWN, Warszawa. Lazarus M., Wszalek-Rożek K. 2016. Two rare halophyte species: Aster tripolium L. and Plantago maritima L. on the Baltic coast in Poland-their resources, distribution and implications for conservation management. Biodiv. Res. Conserv. 41: 51-60. Piotrowska H. 1974. Nadmorskie zespoły solniskowe w Polsce i problemy ich ochrony. Ochr. Przyr. 39: 7-63. Piotrowska H. (red.). 1997. Przyroda Słowińskiego Parku Narodowego. Bogucki Wyd. Nauk., Poznań-Gdańsk, 320 ss.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	1. Coastal ecosystems protection areas in Poland and in Europe - examples 2. Coastal protection structures - pros and cons of building and maintaining them		
Work placement	Not applicable		

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