

**Subject card**

<b>Subject name and code</b>	Coastal geodynamics - lecture, PG_00117831						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>				2025/2026	
<b>Education level</b>	postgraduate studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	3	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>					
<b>Conducting unit</b>	Katedra Geofizyki -> Faculty of Oceanography and Geography						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Leszek Łęczyński				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		17.0		13.0	60
<b>Subject objectives</b>	Introduction to the terminology of processes and conditions of coastal formation on the sea coast.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[OCEANMU2-W02] knows and understands complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as complex relationships between living and non-living elements of the aquatic environment	He knows and understands, to a deeper degree, the course of complex processes and phenomena occurring in the marine environment, with particular emphasis on the coastal zone, as well as the complex interrelationships between animate and inanimate	[SW4] test/exam - oral or written
	[OCEANMU2-U05] is able to use source information in Polish and a selected foreign language, including archival and electronic databases, in the field of oceanographic issues, performs critical analysis and synthesis of information	Can use source information, in Polish and English, including archival and electronic databases, in the field of coastal geodynamics	[SU4] test/exam - oral or written
	[OCEANMU2-U04] is ready to develop in an analytical and synthetic way research and analysis results and based on them creating conclusions	Can analytically and synthetically process the results of research and analysis and on their basis make correct conclusions, in the field of coastal geodynamics	[SU4] test/exam - oral or written
	[OCEANMU2-W06] knows and identifies potential threats to the marine environment on a local and global scale resulting from strong anthropopressure, predicts their effects on various time and space scales	Knows and identifies potential threats to the marine environment at local and global scales resulting from strong anthropopressure, predicts their effects at different spatiotemporal scales, and knows and understands the impact of human activities on coastal geodynamics	[SW4] test/exam - oral or written
	[OCEANMU2-U02] can use scientific terminology fluently and appropriately in presenting and discussing problems in the field of oceanography	Can fluently and appropriately use current scientific terminology in the field of coastal geodynamics in presenting and discussing problems concerning it	[SU4] test/exam - oral or written
[OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)	He/she knows and understands specialist terminology in oceanography and related sciences (in Polish and a selected foreign language) relevant to coastal geodynamics.	[SW4] test/exam - oral or written	
Subject contents	<p>Geological conditions of cliff edge formation. Terminology of cliff shores. Surface mass movements. Geodynamics of cliff shores of the Gdańsk region. Characteristics of basic processes of sea dynamics shaping sea shores. Differential and transport of debris in the coastal zone from cliff abrasion. Factors shaping the beach. Aeolian processes: basic mechanisms, sediment movement. Circulation cells and longshore transport. Anthropogenic transformation of the marine coastal zone.</p>		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam	51.0%	100.0%
Recommended reading	Basic literature	<p>Dubrawski R., 2008, Elementy monitoringu morfodynamicznego polskich brzegów morskich. Zakład Wydawnictw Nauko-wych Instytutu Morskiego w Gdańsku  Gudelis W. K., Jemielianow J.M., 1982. Geologia Morza Bałtyckiego, Wyd. Geologiczne, Warszawa  Teichman A., i in. 1995. Stateczność i ochrona klifów polskiego wybrzeża. Politechnika Gdańska.  Leontiew O. K., Nikiforow L.G., Safinow G.A., 1982. Geomorfologia brzegów morskich, Wyd. Geologiczne, Warszawa  Łęczyński L., 2009. Morfolitodynamika przybrzeża Półwyspu Helskiego. Wydawnictwo Uniwersytetu Gdańskiego  Subotowicz W., 1982. Litodynamika brzegów klifowych w Polsce, Wyd. GTN, Ossolineum  Subotowicz W., 1984. Brzegi klifowe [w:] Pobreże Pomorskie, Wyd. GTN, Ossolineum  Zawadzka Kahlau E., 1999, Tendencje rozwojowe polskich brzegów Bałtyku południowego. Gdańskie Towarzystwo Naukowe Gdańsk.</p>	

	Supplementary literature	Pisarczyk S., 2005. Geoinżynieria metody modyfikacji podłoża gruntowego. Oficyna Wydawnicza Trąbczyński T, Sokołowski K., 2004. Wstęp do mechaniki gruntów. Politechnika Świętokrzyska. Kielce.
	eResources addresses	Adresy na platformie eNauczenie:
Example issues/ example questions/ tasks being completed	-	
Work placement	Not applicable	

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