

Subject card

Subject name and code	Geomorphology of Sea Coast - lecture, PG_00205005						
Field of study	Oceanography						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Optional subject group 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	1	Language of instruction			Polish		
Semester of study	2	ECTS credits			1.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Laboratory of Geomorphological Reconstructions -> Department of Geomorphology and Quaternary Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Patryk Sitkiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		1.0		9.0	25
Subject objectives	Knowledge of basic processes and factors influencing the development of the coast and coastal zone; knowledge of coastal types; human influence on coastal zone development; coastal palaeogeography including the southern Baltic coasts.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANMU2-W01] knows and understands in-depth specialized terminology used in oceanography and related sciences (in Polish and a selected foreign language)		Is proficient in oceanographic issues, including marine coastal zone processes		[SW1] oral statement/ conversation/discussion		
	[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		Is proficient in oceanographic issues, including marine coastal zone processes		[SW1] oral statement/ conversation/discussion		
	[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		Understands the geomorphological processes of the coastal zone		[SW1] oral statement/ conversation/discussion		

Subject contents	Characterisation of processes and factors influencing coastal development. Classification of the coasts of the seas and oceans, division of the coastal zone. Sea level changes and their impact on coastal development. Structure and development of the coasts of the Southern Baltic. Evolution of sea and ocean shores in the Quaternary. Sedimentary structures of the coastal zone. Human influence on coastal development, coastal zone, methods of coastal protection, rationale for coastal protection. Perspectives of coastal development in the Southern Baltic. Projections of coastal evolution in the light of global climate change, potential threats. Analysis of selected processes occurring in the coastal zone.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	written or oral examination	51.0%	100.0%
Recommended reading	Basic literature	<p>Bird E., 2003, Coastal Geomorphology, J. Wiley & Sons Ltd.</p> <p>Einsele G., 2000, Sedimentary Basins, Evolution, Facies and Sediment Budget, Springer-Verlag, Berlin.</p> <p>Leontiew O. K., Nikiforow L. G., Safianow G. A., 1982, Geomorfologia brzegów morskich, Wydawnictwo Geologiczne, Warszawa.</p>	
	Supplementary literature	<p>Klimaszewski M., 1978, Geomorfologia, PWN Warszawa. Lindner L. red., 1992, Czwartorzęd, Wyd. PAE, Warszawa. Massel S., 1989, Hydrodynamics of coastal zones, wyd. IBW PAN, Gdańsk. Pruszk Z., 1998, Dynamika brzegu i dna morskiego, IBW PAN, Gdańsk. Uścińowicz S., 2003, Relative sea level changes, glacio-isostatic rebound and shoreline displacement in the southern Baltic, Polish Geological Institute Special Papers, 10, Warszawa. Allen P. A., 2000, Procesy kształtują powierzchnię Ziemi, Wyd. PWN, Warszawa.</p>	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Should we protect coasts against abrasion? Perhaps it's better to abandon such efforts?		
Work placement	Not applicable		

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