University of Gdańsk

Subject card

Subject name and code	Geomorphology of Sea Coast - laboratory , PG_00205006		
Field of study	Oceanography		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2027/2028
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	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	0.0	0.0	15.0	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-U03] can plan and carry out independently advanced research and measurements, both in field and laboratory, using appropriately selected measurement and analytical techniques in the field of oceanography, adequately to the studied specialty and research problem	Is proficient in oceanographic issues, including marine coastal zone processes	[SU1] oral statement/conversation/ discussion
[OCEANMU2-U02] is able to fluently and accurately use scientific terminology when presenting and discussing oceanographic issues, and to propose and justify innovative solutions	Understands the geomorphological processes of the coastal zone	[SU1] oral statement/conversation/ discussion
[OCEANMU2-U05] is able to use source information in Polish and a chosen foreign language, including archival and electronic databases, within the field of oceanography; critically analyzes and synthesizes information, and is capable of performing critical interpretation and synthesis of data	Is able to use scientific resources.	[SU1] oral statement/conversation/ discussion

Subject contents

Geomorphological processes and forms.Coastal zone dynamics.Human influence on coastal zone development.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
presentation of a selected topic	51.0%	100.0%

Recommended reading

Basic literature

Bird E., 2003, Coastal Geomorphology, J. Wiley & Sons Ltd.

Einsele G., 2000, Sedimentary Basins, Evolution, Facies and Sediment Budget, Springer-Verlag, Berlin.

Leontiew O. K., Nikiforow L. G., Safianow G. A., 1982, Geomorfologia brzegów morskich, Wydawnictwo Geologiczne, Warszawa.

	Supplementary literature	Allen P. A., 2000, Procesy kształtują powierzchnię Ziemi, Wyd. PWN, Warszawa. 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. Pruszak Z., 1998, Dynamika brzegu i dna morskiego, IBW PAN, Gdańsk. Uścinowicz S., 2003, Relative sea level changes, glacio-isostatic rebound and shoreline displacement in the southern Baltic, Polish GeologicalInstitute Special Papers, 10, Warszawa.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Should we protect coasts against abrasion? Perhaps it's better to abandon such efforts? Ice cover and its role in shaping shorelines The most extreme coastal phenomena global examples Shipwrecks in the coastal zone and their role in morphodynamics Artificial beach nourishment in Poland examples, impacts, and presistance Renaturalization of the coastal zone in Gdańsk Władysławowo Port and coastal erosion on the spit Coastal dunes in Poland and their protection Coral reefs and their role in coastal protection Mangrove forests and their role in coastal protection Mega-nourishment (the Sand Engine) vs. traditional beach nourishment Rocky coasts around the world Dynamics of tidal environments Emerging polar coastlines	
Work placement	Not applicable	

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