University of Gdańsk

Subject card

Subject name and code	Management of the Coastal Zone - laboratory, PG_00204974						
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	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 Agnieszka Kubowicz				
	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		2.0		18.0	50
Subject objectives	Knowledge of the basic processes and factors affecting shore and coastal zone development; knowledge of coastal types; human influence on coastal zone development; Integrated Coastal Zone Management strategy and mechanisms, social, economic and environmental objectives.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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.	[SU2] presentation/project/paper/ report
[OCEANMU2-U09] can take part in a discussion/debate using substantive arguments, has the ability to formulate opinions based on scientific knowledge and experience and creating synthetic summaries	Is able to use scientific resources.	[SU2] presentation/project/paper/ report
[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	[SW2] presentation/project/paper/ report
[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	understands coastal and marine processes	[SW2] presentation/project/paper/ report
[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 coastal processes	[SW2] presentation/project/paper/ report
[OCEANMU2-W07] knows and understands legal regulations, principles of sustainable development of the marine environment, its protection and management of the marine environment and its resources	knows the basic law on coastal zone management	[SW2] presentation/project/paper/ report

Subject contents

Characterisation of processes and factors influencing coastal development. Classification of sea and ocean shores, division of the coastal zone. Human influence on coastal development, coastal zone, methods of coastal protection, rationale for coastal protection. Projections of coastal evolution in the light of global climate change, potential threats. Problems of coastal management. Social, economic and environmental goals of sustainable development. Organisation of the implementation of ICZM programmes.Coastal resources in the context of management, resource assessment. Management programmes for selected coastal areas. National and world experience in coastal area management, taking into account areas with extraordinary risks.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
presentation/project/report	51.0%	100.0%

Recommended reading

Basic literature	Basiński T., Pruszak Z., Tarnowska M., Zeidler R., 1993, Ochrona brzegów morskich, Wyd. IBW PAN, Gdańsk.Bird E., 2003, Coastal Geomorphology, J. Wiley & Sons Ltd.Coastal Zone Management with focus on coastal sector coordination and Integrated Coastal Area Planning and Management (2001) HELCOMHabitat 2/2001 7/2. Developed by the United Nations Environmental Programme (UNEP).Einsele G., 2000, Sedimentary Basins, Evolution, Facies and Sediment Budget, Springer-Verlag, Berlin.Integrated Coastal Zone Management in the Baltic States; State of the Art Report, Ed. Alan Pickaver, EUCC The Coastal Union, December 2001 August 2002, Leiden.Leontiew O. K., Nikiforow L. G., Safianow G. A., 1982, Geomorfologia brzegów morskich, Wydawnictwo Geologiczne, Warszawa.
Supplementary literature	Cincin-Sain B., Knecht R.W., 1998, Integrated Coastal and Ocean Management Concepts and Practices, Island Press.Clark J.R., 1995, Coastal Zone Maganement, Handbook, Lewis Publishers.Furmańczyk K., 1994, Współczesny rozwój strefy brzegowej morza bezpływowego w świetle badań teledetekcyjnych wybrzeży Bałtyku.
eResources addresses	

Example issues/ example questions/ tasks being completed	assessment of the effectiveness of coastal protection
Work placement	Not applicable

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