University of Gdańsk

Subject card

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| 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<br>Optional subject group<br>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 |

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| 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

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| 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 | |

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

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