University of Gdańsk

Subject card

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|---|---|---|---|
| Subject name and code | Marine Environment Protection - lecture, PG_00204970 | | |
| 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 | exam |
| Conducting unit | Laboratory of Toxic Substances Transformation -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | dr hab. Dominika Saniewska, prof. UG | |
| | Teachers | | |

**Lesson types**

| Lesson type | Lecture | Tutorial | Laboratory | Project | Seminar | SUM |
|---|---|---|---|---|---|---|
| Number of study hours | 30.0 | 0.0 | 0.0 | 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 | To familiarize students with the main problems of marine environmental protection. |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
|---|---|---|
| [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 | Know and understand the basic regulations and principles in the field of marine environmental protection. | [SW4] 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 | Know and understand the potential threats to the marine environment from human activities. | [SW4] test/exam - oral or written |
| [OCEANMU2-U01] is able to formulate and solve complex and unusual problems regarding the functioning of individual components of the marine environment using knowledge from various fields and scientific disciplines and propose solutions | Can formulate and solve problems related to marine environmental protection. | [SU4] test/exam - oral or written |
| [OCEANMU2-U12] can independently expand and update oceanographic knowledge when planning and developing a professional career, as well as motivates others to deepen their knowledge | Can independently expand his knowledge of marine environmental protection. | [SU4] test/exam - oral or written |

## Subject contents

A.1 Regulations and international conventions relating to the protection of the marine environment (i.a. MARPOL 73/78, HELCOM).
A.2 Selected Polish legislation relating to the protection of the marine environment
a. maritime areas of the Republic of Poland,
b. tasks of maritime administration in the field of protection of the marine environment,
c. monitoring of the marine environment;
A.3 Protection of the sea from pollution caused by ships:
a. pollution from failure-free operation of ships,
b. disasters of oil tankers and oil rigs,
c. reduction of oil spills at sea,
d. elimination of oil spills by physical and chemical methods (sorbents, dispersants, incineration).
e. oil spills in the Baltic Sea,
f. hazardous substances transported in bulk;
A.4 Storage of hazardous substances and waste at sea as a means of disposal:
a. poisonous warfare agents (CWs) dumped in the Baltic Sea,
b. nuclear arsenals in the seas and oceans,
c. dredged material from the dredging of waterways.

## Prerequisites and co-requisites

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| Exam | 51.0% | 100.0% |

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| Recommended reading | Basic literature | Bolałek J., 2016. Ochrona środowiska morskiego - od teorii do praktyki. Wyd. Uniw. Gdańskiego, Gdańsk<br>Korzeniewski K., 1998. Ochrona środowiska morskiego. Wyd. Uniw. Gdańskiego, Gdańsk<br>Ustawa z dnia 21 marca 1991 r o obszarach morskich RP (Dz.U. z 1991 r. Nr 32, poz.131 z późniejszymi zmianami)<br>Ustawa z dnia 16 marca 1995 r. o zapobieganiu zanieczyszczeniu przez statki (Dz.U. Nr 47, poz. 243)<br>Konwencja MARPOL 73/78<br>Konwencja o ochronie środowiska morskiego obszaru Morza Bałtyckiego z 9.04.1992 r.<br>Informacje z dostępnych źródeł nt ostatnich bieżących katastrof ekologicznych na morzu. |
| | Supplementary literature | Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotechnicznych. |
| | eResources addresses | |
| Example issues/ example questions/ tasks being completed | | |
| Work placement | Not applicable | |

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