University of Gdańsk

Subject card

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| Subject name and code | Marine Environment Protection II - lecture, PG_00198762 | | | | | | |
| Field of study | Marine Hydrography | | | | | | |
| Date of commencement of studies | October 2026 | | Academic year of realisation of subject | 2026/2027 | | | |
| Education level | Bachelor's studies | | Subject group | Obligatory subject group in the field of study<br>Subject group related to practical vocational preparation | | | |
| Mode of study | full-time studies | | Mode of delivery | at the university | | | |
| Year of study | 1 | | Language of instruction | Polish | | | |
| Semester of study | 1 | | ECTS credits | 1.0 | | | |
| Learning profile | practical | | Assessment form | credit | | | |
| Conducting unit | Faculty of Oceanography and Geography -> Rector | | | | | | |
| Name and surname of lecturer (lecturers) | Subject supervisor | | dr inż. Piotr Bekier | | | | |
| | 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 | As a result of the training, the trainee should acquire:<br>a) knowledge in the following areas:<br>- basic concepts of marine ecology, types of pollution generated on board ships, and legal regulations regarding the prevention of pollution in the Baltic Sea;<br>- principles of operating environmental protection equipment used on board seagoing vessels;<br>b) skills in the following areas:<br>- operating environmental protection equipment used on board ships;<br>- correctly assessing the performance of environmental protection equipment;<br>- maintaining environmental protection documentation required for ships and required by law. | | | | | | |

## Learning outcomes

| Course outcome | Subject outcome | Method of verification |
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| [HML3-W04] knows and understands, at an advanced level, the issue of measurements related to the exploration of sea basins and inland waters and tools allowing to describe, interpret and present the results of measurements | knows and understands at an advanced level the concepts related to pollution generated on ships, legal regulations concerning the prevention of pollution of the Baltic Sea, and the principles of operating shipboard environmental protection equipment used on seagoing vessels | [SW4] test/exam - oral or written |
| [HML3-W13] knows and understands global environmental problems resulting from the development of civilisation, in particular strong anthropopressure in the coastal regions of seas and oceans | knows and understands at an advanced level the problems associated with the pollution of seas and oceans with petroleum and its derivatives, chemical warfare agents and radioactive waste . | [SW4] test/exam - oral or written |
| [HML3-U12] is able to use engineering standards and norms and apply technologies specific to the field of study | is able to maintain the documentation required by law for the ship in the field of environmental protection and has the ability to select methods for oil spill cleanup | [SU2] presentation/project/paper/ report |
| [HML3-U02] is able to select and apply basic research techniques and tools in the field of aquatic environment research, as well as plan and carry out measurements, develop the obtained results and interpret them correctly | is able to operate environmental protection equipment used on ships and correctly assess the operation of environmental protection equipment | [SU2] presentation/project/paper/ report |
| [HML3-K01] is ready to correctly identify and resolve professional dilemmas, especially in the aspects of security and entrusted property | is ready to correctly identify and resolve dilemmas related to the practice of the profession, especially in aspects of environmental protection | [SK8] observation of student's independent or team work |

## Subject contents

1. MARPOL Convention.
2. Helsinki Convention.
3. Measures and methods for combating pollution from ships.
4. Shipboard equipment and systems for cleaning and preventing pollution.
5. Shipboard procedures for environmental protection and pollution prevention.
6. Ship documentation for marine environmental protection, required certificates.

## Prerequisites and co-requisites

Subject required by the Regulation of the Minister of Infrastructure and Development of February 5, 2014, on framework training programs and examination requirements for deck department seafarers (i.e., Journal of Laws 2023, item 1566): attendance at all classes is mandatory. AMW allows students to make up for up to 20% of excused absences from these classes in a form that enables them to acquire the missing knowledge and skills. Students who have passed the course but, due to absences exceeding 20% of classes or failure to make up for classes in a form that allows them to obtain the missing knowledge and skills, do not receive an entry in the supplement confirming completion of studies recognized at the operational level in coastal shipping.

## Assessment methods and criteria

| Subject passing criteria | Passing threshold | Percentage of the final grade |
|---|---|---|
| oral presentation | 51.0% | 20.0% |
| report | 51.0% | 20.0% |
| written test | 51.0% | 60.0% |

## Recommended reading

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| Basic literature | 1. BOLAŁEK J.: Ochrona środowiska morskiego od teorii do praktyki. 2016.<br>2. KORZENIOWSKI K.: Ochrona środowiska morskiego. 1998.<br>3. WIEWIÓRA A.: Ochrona środowiska morskiego. 2004.<br>4. Konwencja MARPOL 73/78. |
| Supplementary literature | 1. BUKOWSKI Z.: Prawo międzynarodowe a ochrona środowiska. 2005. |
| eResources addresses | |

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| Example issues/ example questions/ tasks being completed | 1. Provide a definition of pollution according to the Helsinki Convention.<br>2. How should contaminated dredged material be handled?<br>3. List the main methods of combating oil spills.<br>4. What are radioactive isotopes? |
| Work placement | Not applicable |

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