University of Gdańsk

Subject card

Subject name and code	Marine Environment Protection I - lecture, PG_00198763						
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			
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							
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	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	To familiarize students with the main issues related to marine environmental protection.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[HML3-W14] knows and understands key legal regulations regarding the sustainable development of the marine environment and nature protection	knows and understands at an advanced level the national legal regulations concerning marine environmental protection	[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 related to the pollution of seas and oceans by crude oil and its derivatives, chemical warfare agents, and radioactive waste.	[SW4] test/exam - oral or written
	[HML3-U05] when identifying, formulating and solving engineering tasks, is able to integrate knowledge from various fields and disciplines and perceive their systemic and non-technical aspects, including ethical aspects	is able to formulate and solve problems related to marine environmental protection, taking into account legal and environmental aspects	[SU4] test/exam - oral or written
	[HML3-W11] knows and understands, at an advanced level, rules, regulations and procedures related to the carriage of cargo by sea, in particular the physico-chemical characteristics of cargoes accepted on board and the rules for their handling	knows at an advanced level the types and properties of hazardous substances transported by sea and is able to select appropriate methods for oil spill response	[SW4] test/exam - oral or written
	[HML3-W02] knows and understands, at an advanced level, selected phenomena and processes occurring in the hydrosphere, atmosphere, lithosphere and biosphere, their interconnections and relations, as well as practical applications of this knowledge in professional activities related to the field of study	knows and understands at an advanced level complex phenomena and processes occurring in nature, including those related to the dispersion of anthropogenic pollutants	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td colspan="2">A.1 Selected Polish legislation concerning marine environmental protection

a. Maritime areas of the Republic of Poland,

b. Responsibilities of the maritime administration in the field of marine environmental protection;

A.2 Protection of the sea from pollution caused by ships:

a. Pollution from the normal (non-accidental) operation of ships,

b. Tanker and offshore drilling platform disasters,

c. Prevention of oil spills at sea,

d. Removal of oil spills using physicochemical methods (sorbents, dispersants, burning),

e. Oil spills in the Baltic Sea,

f. Hazardous substances transported in bulk;

A.3 Disposal of hazardous substances and waste in the sea as a method of their elimination:

a. Chemical warfare agents (CWAs) dumped in the Baltic Sea,

b. Nuclear arsenals in seas and oceans,

c. Dredged material from waterway deepening.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td colspan="2"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>test</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Bolałek J., 2016. Ochrona środowiska morskiego - od teorii do praktyki. Wyd. Uniw. Gdańskiego, Gdańsk.

Korzeniewski K., 1998. Ochrona środowiska morskiego. Wyd. Uniw. Gdańskiego, Gdańsk.

Ustawa z dnia 21 marca 1991 r o obszarach morskich RP (Dz.U. z 1991 r. Nr 32, poz.131 z późniejszymi zmianami).</td></tr>
<tr><td>Supplementary literature</td><td>Graczyk T., Piskorski Ł., Siemianowski R., 2001. Ochrona środowiska morskiego przez zanieczyszczeniami z obiektów oceanotechnicznych. Politechnika Szczecińska, Szczecin.

Wiewióra A., 2004. Ochrona środowiska morskiego w eksploatacji statków. Fund. Rozw. WSM w Szczecinie, Szczecin.

Information from available sources on current environmental disasters at sea.</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">How should contaminated dredged material be handled?
List the main methods of oil spill cleanup.
What are radioactive isotopes?</td></tr>
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Work placement	Not applicable

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