

Subject card

Subject name and code	Marine environmental monitoring for marine investment projects, PG_00209736						
Field of study	Spanish and Portuguese Studies						
Date of commencement of studies	October 2024		Academic year of realisation of subject				
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study Optional subject group		
Mode of study	full-time studies		Mode of delivery		e-learning		
Year of study	3		Language of instruction		Polish polish		
Semester of study	5		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Marine Environmental Protection -> Department of Chemical Oceanography and Marine Geology -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Dorota Burska, 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: 30.0						
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		1.0		20.0	51
Subject objectives	To introduce students to the specific characteristics of the Baltic Sea environment and the system of its national and international protection. To provide knowledge about the principles of Monitoring Polish Maritime Areas in relation to the State Environmental Monitoring Program (PMŚ), as well as the requirements and challenges associated with the planning and implementation of infrastructure projects in maritime areas.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
			Knows and understands the basic indicators of the vulnerability of water bodies to degradation. Knows and understands the basic legal regulations and principles of the State Environmental Monitoring Program (PMŚ). Is able to assess potential threats to the marine environment resulting from human activities in this area. Discusses environmental impact assessment (EIA) procedures at all stages of marine project implementation. Independently searches for information on the quality of the marine environment. Understands the role of public communication in shaping maritime policy. Translated with DeepL.com (free version)		[SU2] presentation/project/paper/report [SK4] test/exam - oral or written		

Subject contents	1. Environmental pollution—definitions, types, and sources (natural and anthropogenic) 2. Distribution of pollutants in seas and oceans; global hotspots; estuaries of major rivers, shipping lanes, ocean currents, and marine infrastructure projects 3. The Baltic Sea—fundamentals of the marine ecosystem's functioning, vulnerability to transformation/ degradation; 4. Principles of state environmental monitoring (PMŚ)—objectives, scope of activities, implementing agencies, and the role of the public in shaping national environmental policy 5. Marine environmental monitoring and the system of its national and international protection; current and projected/emerging threats (e.g., pharmaceuticals, plastics) 6. The state of the Baltic Sea environment—changes in sea quality over the past 75 years; national and international measures aimed at improving water quality 7. Environmental conditions critical to the implementation of marine infrastructure projects (planning, implementation, operation, and project closure)—administrative and legal tools 8. Infrastructure projects in marine areas—scope of environmental studies, marine environmental impact assessments (EIA), and environmental services—the basis for initiating and operating a project, as well as compensatory measures to offset the project's negative impact on the marine environment 9. Selected infrastructure projects located in the Baltic Sea region (e.g., offshore wind farms; a nuclear power plant; the Vistula Spit canal) 10. Selected infrastructure projects (e.g., crushed stone extraction, transmission infrastructure) located in global ocean areas (e.g., territorial waters, international waters) 11. The role of reliable information for the public (public consultations) as a key element of properly conducted environmental and conservation studies. 12. Digital tools for monitoring the state of the marine environment and its pollution (e.g., SatBałtyk, MyOcean Pro, Global Plastic Watch)		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Prezentacja tematyczna	51.0%	40.0%
	Test	51.0%	60.0%
Recommended reading	Basic literature	1. Bolalek, J., 2016. Marine Environmental Protection—From Theory to Practice. University of Gdańsk Press, Gdańsk 2. Furmańczyk, K., Bugajny, N., 2016. Monitoring of the Polish Baltic Coast in the SatBałtyk Project. University of Szczecin Press, Szczecin 3. Graczyk, T., Piskorski, Ł., & Siemianowski, R., 2001. Protection of the Marine Environment against Pollution from Ocean Engineering Structures. Szczecin University of Technology Press, Szczecin 4. Stryjecki M., et al., 2025. Guidelines for the Environmental Impact Assessment of Offshore Wind Farms, General Directorate for Environmental Protection, Warsaw, 5. Selected environmental decisions by the Director of GIOŚ and scientific publications. Online sources: https://rdsm.gios.gov.pl/pl/monitoring https://www.satbaltyk.pl https://marine.copernicus.eu/pl https://plasticnavigator.wwf.de	
	Supplementary literature	1. Korzeniewski, K., 1988, Protection of the Marine Environment, University of Gdańsk Press, Gdańsk 2. Reports titled "ASSESSMENT OF THE ENVIRONMENTAL STATUS OF POLAND'S BALTIC SEA AREAS" for the years 2020–2024	
	eResources addresses		

Example issues/ example questions/ tasks being completed	1. Monitoring of Polish maritime areas—objectives and scope of activities 2. Phasing of maritime infrastructure investment projects 3. Environmental and socioeconomic benefits of environmental impact assessments for maritime areas 4. The role of the public in shaping environmental policy
Work placement	Not applicable

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