University of Gdańsk

Subject card

Subject name and code	Bioindication and Biomonitoring of Water - field classes, PG_00201438		
Field of study	Water Management and Protection of Water Resources		
Date of commencement of studies	October 2027	Academic year of realisation of subject	2028/2029
Education level	Bachelor's studies	Subject group	Obligatory subject group in the field of study Subject group related to practical vocational preparation
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish
Semester of study	4	ECTS credits	1.0
Learning profile	practical	Assessment form	credit
Conducting unit	Laboratory of Biodiversity and Benthic Functioning -> Department of Marine Ecology -> Faculty of Oceanography and Geography -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Halina Kendzierska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	15.0	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

The development of knowledge on assessing the risks of aquatic ecosystems related to human activities, seeking solutions to achieve sustainable management of aquatic areas and to improve the quality of aquatic ecosystems. The learning and selection of methods methods for the biological assessment of aquatic environmental quality and sustainability.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-U02] select and independently apply basic research techniques and tools, with adhering to established analytical procedures in the field of environmental research in water management, adequately to the considered research problem.	Ability to select basic research techniques and tools, following established analytical procedures for water biomonitoring	[SU2] presentation/project/paper/ report

Subject contents

B.1. Field surveys in the selected area: river and/or coastal zone of the Gulf of Gdansk: observation, inventory and sample collection;
B.2. Visit to institutions conducting research used in biomonitoring i.e. Prof. Krzysztof Skóra Marine Station, IMGW, WIOŚ.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
activity in class, being prepared for class	51.0%	10.0%
assesstment work, raports	51.0%	90.0%

Recommended reading	Basic literature	Kołodziejczyk, A., Koperski, P., 2000. Freshwater invertebrates of Poland. Klucz do oznaczania oraz podstawy biologii i ekologii makrofauny. University of Warsaw Publishing House. Sea Water Monitoring Programme, Report to the European Commission, 2014, Prepared by the Chief Inspector of Environmental Protection, Warsaw. Wiech A.K., Marciniewicz-Mykieta M., Toczko B., 2018, San environment in Poland Report 2018, Inspekcja Ochrony Środowiska, Biblioteka Environmental Monitoring,Warsaw
	Supplementary literature	Herbich J. (red.) 2004. Siedliska morskie i przybrzeżne, nadmorskie i śródlądowe solniska i wydmy w Poradniki ochrony siedlisk i gatunków Natura 2000 podręcznik metodyczny, Ministerstwo Środowiska, Warszawa. T. 1, http://natura2000.mos.gov.pl/natura2000/pl/poradnik.php#1
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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