University of Gdańsk

Subject card

Subject name and code	Biological oceanography - laboratory exercises, PG_00118072		
Field of study	Oceanography		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2025/2026
Education level	undergraduate 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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	4.0
Learning profile	academic	Assessment form	
Conducting unit	Pracownia Biologii Planktonu -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography		
Name and surname of lecturer (lecturers)	Subject supervisor	dr Anna Panasiuk	
	Teachers		

Lesson types							
	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	45.0	0.0	0.0	45
	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	45	13.0	50.0	108

Subject objectives	To familiarize students with the ecological formations of the seas and oceans, their main representatives and adaptations to the environment.

Learning outcomes	Course outcome	Subject outcome	Method of verification
	OCEANL3-U12	Is able to systematically expand and update knowledge in the field of biological oceanography and improve professional qualifications.	[SU1] oral statement/conversation/ discussion
	OCEANL3-U04	Is able to use source information in Polish and English, including archival and electronic databases, in the field of biological oceanographic issues, and performs critical analysis and synthesis of information.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
	[OCEANL3-K06] is willing to use the acquired knowledge in planning and designing professional activities as well as thinking and acting in an entrepreneurial way, also in the field of social activities undertaken	Is ready to comply with the principles of occupational health and safety, take care of the specialist equipment, and is aware of the risks and hazards resulting from the work performed.	[SK6] demonstration of practical skills [SK8] observation of student's independent or team work
	OCEANL3-U03	Is able to plan research and measurements, both in the field and in the laboratory, independently or under the supervision of a research supervisor, using appropriately selected measurement and analytical techniques in the field of biological oceanography, adequate to the research problem posed.	[SU1] oral statement/conversation/ discussion [SU6] demonstration of practical skills [SU8] observation of student's independent or team work
	OCEANL3-U11	Is able to work individually and collaborate in laboratory and field groups, performing various functions and tasks.	[SU8] observation of student's independent or team work
	OCEANL3-U01	Is able to use current scientific terminology in presenting and discussing problems in the field of biological oceanography.	[SU1] oral statement/conversation/ discussion [SU4] test/exam - oral or written
Subject contents	Review of basic ecological formations in seas and oceans. Trophic relationships in open and coastal waters.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Determining the grade based on grades from individual thematic blocks covered throughout the semester (all thematic blocks should be passed)	51.0%	100.0%
Recommended reading	Basic literature	Demel K. (1979) Życie morza, Wyd. Morskie, Gdańsk (in Polish) Duxbury A.C., Duxbury A.B., Sverdrup K.A. (2002) Oceany świata, PWN, Warszawa (in Polish) Nybkken J.W., Bartness M. D. (ed) (2005) Marine Biology, an ecological approach, Person Beniamin Cummings Pliński M. (1994) Biologia organizmów morskich. Wydawnictwo UG, Gdańsk (in Polish) Thurman H.V. (1982) Zarys oceanologii, Wyd. Morskie, Gdańsk (in Polish) Umiński T. (1976) Zwierzęta i oceany: popularna zoogeografia wód morskich. Wydawnictwo Szkolne i Pedagogiczne, Warszawa (in Polish) Żmudziński L. (1990) Świat zwierzęcy Bałtyku: atlas makrofauny. Wydawnictwo Szkolne i Pedagogiczne, Warszawa (in Polish)	
	Supplementary literature	Gage J.G., Tyler P.A. (1991) Deep Sea Biology, Cambridge Univesity Press Korzeniewski K. (1998) Ochrona środowiska morskiego, Wyd. UG, Gdańsk (in Polish) Lwowicz M.I. (1979) Zasoby wodne świata, PWN Warszawa (in Polish) Depowski S. (1998) Surowce mineralne mórz i oceanów, Wyd. Scholar, Warszawa (in Polish) Różańska Z. (1987) Zasoby, zanieczyszczenia i ochrona wód morskich ze szczególnym uwzględnieniem Bałtyku, PWN Warszawa (in Polish)	
	eResources addresses	Adresy na platformie eNauczanie:	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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