

Subject card

Subject name and code	, PG_00121056						
Field of study	Oceanography						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2025/2026		
Education level	postgraduate studies	Subject group			Optional subject group		
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			2.0		
Learning profile	academic	Assessment form					
Conducting unit	Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. Hanna Mazur Marzec					
	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: 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	30	7.5		20.0	57,5	
Subject objectives	Acquiring knowledge about the possibilities of biotechnological use of products from marine organisms.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[OCEANMU2-K04] is ready to critically evaluate his/her knowledge and received content in the field of natural sciences in particular in the field of the studied specialty, a in problematic situations, supports oneself with knowledge experts	is ready to critically evaluate information obtained from scientific publications in the field of marine biotechnology			[SK1] oral statement/conversation/discussion [SK3] text preparation/written work [SK8] observation of student's independent or team work		
	[OCEANMU2-W04] knows and understands the latest research trends in the field of oceanography as well as the possibilities of practical application of scientific achievements	Knows and understands in-depth the latest research trends in the field of marine biotechnology.			[SW3] text preparation/written work		
	[OCEANMU2-U04] is ready to develop in an analytical and synthetic way research and analysis results and based on them creating conclusions	is able to analyse and synthetically develop experimental results and propose correct conclusions			[SU1] oral statement/conversation/discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work		
Subject contents	B.1. Selected products of marine organisms used by humans (including as a source of energy, bioplastics, pharmaceuticals, dietary supplements, nutraceuticals, cosmetics) B.2. Methods of obtaining natural products for commercial purposes B. 3. Assessment of the possibilities of biotechnological application of products of marine organisms B. 4. Identification and isolation of natural products B. 5. Implementation stages and application of marine natural products in biotechnology and pharmacology						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		completing a term paper - project or presentation	51.0%
Recommended reading	Basic literature	Se-Kwon Kim., 2015. Handbook of Marine Biotechnology. Springer Selected articles from the journal Marine Drugs and Marine Biotechnology	
	Supplementary literature	Selected articles from the journal Marine Drugs and Marine Biotechnology	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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