

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	Master the knowledge of the possibilities of biotechnological use of products of 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 publications scientific publications in the field of marine biotechnology		[SK1] oral statement/conversation/discussion [SK2] presentation/project/paper/report		
	[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 to an in-depth degree the latest research trends in the field of marine biotechnology.		[SW1] oral statement/conversation/discussion [SW2] presentation/project/paper/report		
[OCEANMU2-U04] is ready to develop in an analytical and synthetic way research and analysis results and based on them creating conclusions		can analytically and synthetically elaborate the results of experiments and propose correct conclusions		[SU2] presentation/project/paper/report			
Subject contents	B.1. Selected products of marine organisms used by humans (including as a source of energy, bioplastics, pharmaceuticals, dietary supplements diets, nutraceuticals, cosmetic agents) B.2. Methods of obtaining natural products for commercial purposes B.3. Assessment of the possibility of biotechnological application of products of marine organisms B.4. Identification and isolation of natural products B.5. Stages of implementation 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
	determination of a passing grade on the basis of partial grades received during the semester	51.0%	100.0%
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 eNauzanie:	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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