

Subject card

Subject name and code	Marine Microbiology (Lecture), PG_00169065						
Field of study	Oceanography						
Date of commencement of studies	October 2022		Academic year of realisation of subject		2024/2025		
Education level	undergraduate studies		Subject group		Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	3		Language of instruction		Polish		
Semester of study	6		ECTS credits		1.0		
Learning profile	academic		Assessment form				
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Anna Toruńska-Sitarz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	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		5.0		10.0	30
Subject objectives	To learn about the different groups of marine microorganisms, the nature of their interactions with other organisms and their role in processes in the sea.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[OCEANL3-W02] has an in-depth knowledge and understanding of physical, biological, chemical and geological processes and phenomena occurring in the aquatic environment, with particular emphasis on the marine environment		W_1 [K_W02] Knows and understands the basic natural microbial processes in the marine environment. Knows and understands the basic relationships between microorganisms and other organisms and non-living elements of the aquatic environments, with particular emphasis on the marine environment.		[SW4] test/exam - oral or written		
Subject contents	1. Breakthroughs in microbiology, with particular emphasis on marine research. 2. Structure and diversity of marine microorganisms. Current classification systems. 3. Mechanisms regulating microbial abundance and biomass. 4. The role of microorganisms in the marine environment. 5. Methods used in marine microbiological research.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Exam		51.0%		100.0%		
Recommended reading	Basic literature		Błaszczuk M.K., Microbiology of the Environment, PWN, Warsaw; scientific publications provided annually (according to the current state of knowledge).				

	Supplementary literature	Schlegel H.G., General Microbiology. PWN, Warsaw; Munn C.B., Marine Microbiology, Ecology and Application, Taylor & Francis Routledge.; Saylers A.A., Whitt.D.D., Microbiology - Environmental diversity, pathogenicity and the environment, PWN; De Kruif P., Microbial hunters
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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