

**Subject card**

<b>Subject name and code</b>	Marine Microbiology - laboratory, PG_00206161						
<b>Field of study</b>	Oceanography						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study Optional subject group Subject group related to scientific research in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Anna Toruńska-Sitarz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	0.0	0.0	30.0	0.0	0.0	30
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	30		2.0		18.0	50
<b>Subject objectives</b>	To acquire the basic knowledge of the principles of work and safety in a microbiology laboratory; to introduce students to the basic techniques and methods of marine microbiology.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[OCEANL3-U03] is able to process, describe, and present results, and draw conclusions		Is able to process, describe and present the results of microbiological investigations and analyses and to make correct conclusion based on them.			[SU2] presentation/project/paper/report [SU3] text preparation/written work [SU4] test/exam - oral or written	
<b>Subject contents</b>	<p>1. Basic principles of microbiology laboratory work. Methods of microbial isolation and culture.</p> <p>2. Identification and quantitative analysis of microorganisms based on classical and modern methods.</p> <p>3. Analysis of interactions between marine microorganisms.</p>						
<b>Prerequisites and co-requisites</b>	none						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Test	51.0%	20.0%
	Report	51.0%	20.0%
	Entry tests	51.0%	60.0%
Recommended reading	Basic literature	Script prepared by the lecturer.	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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