

Subject card

Subject name and code	MSc Laboratory I - laboratory classes, PG_00195181						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2027/2028		
Education level	Master's 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	2	Language of instruction			English		
Semester of study	3	ECTS credits			13.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Laboratory of Marine Biotechnology -> Department of Marine Biology and Biotechnology -> Faculty of Oceanography and Geography -> Rector						
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	0.0	0.0	220.0	0.0	0.0	220
	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	220		10.0		95.0	325
Subject objectives	<p>The aim of the laboratory course is to provide students with an in-depth knowledge of the research material (organism) used in the study; to familiarize them with the research methods and techniques applied in the diploma thesis, including their optimization and validation; and to further develop general laboratory skills, particularly in the planning and execution of experiments.</p> <p>During the course of study, student independently chooses the topic of the diploma thesis from one of the following areas: aquaculture, biologically active natural products of marine organisms, or molecular methods in marine biotechnology.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MBMU2-KW04] Knows and deeply understands advanced research methods used in marine biotechnology and related sciences	Possesses knowledge on the advanced methods used in marine biotechnology, especially those applied during MSc laboratory	[SW1] oral statement/conversation/discussion [SW5] implementation of a problem task
	[MBMU2-KU01] Can plan and conduct research in the laboratory and at sea, and to document procedures and results. Independently or under the supervision of an authorized staff member, carries out work using specialized equipment. Complies with occupational health and safety regulations.	Possess the ability to plan and perform the laboratory experiments and document the results; is able to use research tools applied during MSc laboratory	[SU1] oral statement/conversation/discussion [SU3] text preparation/written work [SU5] implementation of a problem task [SU8] observation of student's independent or team work
	[MBMU2-KK03] Is ready to apply the principles of occupational health and safety, especially in the laboratory and at sea; is responsible for their own and others' safety; can recognize hazards and take appropriate action	Has an ability to work in accordance with safety regulations, is responsible and can predict the potential hazard.	[SK1] oral statement/conversation/discussion [SK8] observation of student's independent or team work
Subject contents	The course content varies and depends on the topic of master thesis		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Quality and progress of student's project	51.0%	50.0%
	Ability to correctly interpret the results	51.0%	50.0%
Recommended reading	Basic literature	Books and articles published in scientific journals related to the topic of master thesis	
	Supplementary literature	Books and articles published in scientific journals related to the topic of master thesis	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Project-dependent		
Work placement	Not applicable		

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