

Subject card

Subject name and code	Blue biotechnology industry - tutorials, PG_00192668						
Field of study	Marine Biotechnology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2026/2027		
Education level	Master's studies	Subject group			Obligatory subject group in the field of study Humanistic-social 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	1	Language of instruction			English		
Semester of study	2	ECTS credits			3.0		
Learning profile	academic	Assessment form			credit		
Conducting unit	Faculty of Oceanography and Geography Office -> Faculty of Oceanography and Geography -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Anna Dziadkiewicz				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	30.0	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		3.0		42.0	75
Subject objectives	<p>During the lecture, students will learn the basic issues related to the protection of intellectual property. The objectives of the lecture are to gain theoretical and practical knowledge of intellectual property protection, to increase creativity and innovation and for students to be aware of the basics of the law. The industrial biotechnology industry is a growth area, attracting more and more young people who see this industry as a career opportunity. Therefore, education in how to run and manage a business, as well as a team, plays a key role. The Management module will include education in soft skills (communication skills, teamwork, marketing and PR) and project and process management skills.</p>						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[MBMU2-KW02] Has an in-depth knowledge of the possibilities of biotechnological use of marine resources	The student has knowledge, focused on the biotechnological use of marine resources.	[SW1] oral statement/ conversation/discussion [SW3] text preparation/written work
	[MBMU2-KW05] Possesses knowledge in the fields of social sciences and humanities necessary for the responsible conduct of research and innovation activities, taking into account ethical, legal, and social aspects.	The student has knowledge of the social sciences, the fundamentals of law and the principles of intellectual property protection, helpful in managing a biotechnology enterprise and operating effectively in this industry. He/she understands ethical principles and responsibility in conducting research and innovation in marine biotechnology.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[MBMU2-KU03] Can use and critically analyze available scientific information; can prepare and present - orally or in writing - a paper covering detailed problems in the field of marine biotechnology on the basis of the scientific information or their own work, with the use of scientific language, including specialized terminology and conceptual apparatus; has the ability to conduct discussions	Students will be able to analyse and use scientific sources of information and the results of their own work in order to prepare oral and written presentations on marine biotechnology, using adequate scientific terminology. The student is able to lead a substantive discussion, presenting arguments and using the knowledge of intellectual property protection, project management, creativity and innovation.	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[MBMU2-KK02] Is ready to effectively plan and organize his individual and team work, especially in the laboratory and at sea; is ready to plan his individual career and act in an entrepreneurial manner	Students are prepared to plan and organise their own work and that of their teams effectively, particularly in the context of protecting intellectual property and implementing innovations; they are aware of the legal requirements and entrepreneurial principles in marine biotechnology, which enables them to plan their careers effectively and to act creatively and innovatively.	[SK5] implementation of a problem task [SK8] observation of student's independent or team work
Subject contents	<ol style="list-style-type: none"> 1. The concept of intangible goods and intellectual property 2. Classification of intangible goods 3. Copyright - the basis - the subject of copyright, copyright holders 4. Industrial property solutions (inventions, utility models, industrial designs, integrated circuit topographies, rationalisation projects, geographical indications, trademarks). 5. Inventions in the field of pharmacy and biotechnology - specificity of the subject and protection 6. Communication Skills in biotechnology industry 7. Problem Solving in organization 8. Project and Process Management 9. Introduction to marketing and PR 10. Ethics aspects in science and business 		
Prerequisites and co-requisites	Marine biotechnology knowledge		

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	final presentation	51.0%	50.0%
	essays	51.0%	50.0%
Recommended reading	Basic literature	A.1 Literature used in class A.2 Literature studied independently by the student	
	Supplementary literature	Materials provided by the lecturer.	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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