University of Gdańsk

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, prof. UG				
	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	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.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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
[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-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

Subject contents

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

<table>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>essays</td><td>51.0%</td><td>50.0%</td></tr>
<tr><td>final presentation</td><td>51.0%</td><td>50.0%</td></tr>
</table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">A.1 Literature used in classA.2 Literature studied independently by the student</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">Materials provided by the lecturer.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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