University of Gdańsk

Subject card

Subject name and code	Microbiology - lecture, PG_00091498		
Field of study	Water Management and Protection of Water Resources		
Date of commencement of studies	October 2024	Academic year of realisation of subject	2024/2025
Education level	undergraduate studies	Subject group	Obligatory subject group in the field of study Subject group related to scientific research in the field of study Subject group related to practical vocational preparation
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	1	Language of instruction	Polish
Semester of study	2	ECTS credits	1.0
Learning profile	practical	Assessment form	
Conducting unit	Pracownia Biotechnologii Morskiej -> Katedra Biologii Morza i Biotechnologii -> Faculty of Oceanography and Geography		
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 microorganisms, the nature of their interactions with other organisms, and their role in the aquatic environment.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[GWOZWL3-W01] in advanced basic biological, physical and chemical processes and phenomena, as well as analyzes their mutual relations and course in relation to natural environment and socio-ecological systems	W_1 [K_W01] Knows and understands at an advanced level the basic microbial processes occurring in the aquatic environment, and analyses them in relation to the whole natural environment and socio-ecological systems.	[SW4] test/exam - oral or written

<table>
<tr><td>Subject contents</td><td>1. Structure and diversity of aquatic microorganisms.

2. Mechanisms regulating microbial abundance and biomass.

3. The role of microorganisms in the functioning of aquatic environments.

4. Methods used in microbiological research.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>none</td></tr>
<tr><td>Assessment methods and criteria</td><td><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>Final exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td>Recommended reading</td><td><table><tr><td>Basic literature</td><td>Bibliography used during the classes:Błaszczyk M.K., Microbiology of the environments. 2010. PWN, Warszawa;Latest scientific publications in the scope of the lecture topic.Bibliography studied independently by the student:Schlegel H.G., General microbiology. 2000, PWN; Warszawa;Recent scientific publications in the scope of the lecture topic.</td></tr><tr><td>Supplementary literature</td><td>-</td></tr><tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr></table></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td></td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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