University of Gdańsk

Subject card

Subject name and code	Specialisation lab - practical and theoretical preparation for diploma exam (Tutoring), PG_00197665		
Field of study	Biotechnology		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2027/2028
Education level	Bachelor'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	3	Language of instruction	Polish
Semester of study	6	ECTS credits	5.0
Learning profile	academic	Assessment form	credit
Conducting unit	Intercollegiate Faculty of Biotechnology UG-MUG -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Andrea Lipińska	
	Teachers		

Lesson types

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	0.0	45.0	0.0	0.0	0.0	45

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	45	20.0	60.0	125

Subject objectives

The aim of the course is for students to master the knowledge of basic terms and concepts used in biotechnology in its broadest sense. During the course, the student will expand their knowledge of basic techniques and research tools used in biotechnology. The course also aims to strengthen the students' readiness for continuous improvement, updating their knowledge and raising their professional qualifications. In the course, the student will combine the knowledge and skills learned so far to solve specific research problems.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[BIOTECHL3_W07] The graduate has advanced knowlegde of the rules of operation and the possibilities of using research techniques and tools used in biotechnology.	Has knowledge of basic research techniques and tools used in biotechnology	[SW1] oral statement/ conversation/discussion
[BIOTECHL3_K01] The graduate is aware of the scope of their own knowledge and skills; demonstrates a willingness to continuously update them and pursue professional development.	Is aware of the limitations of his/ her own knowledge and skills; demonstrates a willingness to continually improve, update knowledge and enhance qualifications in biotechnology in the fields of science and life sciences and medical and health sciences	[SK1] oral statement/conversation/ discussion
[BIOTECHL3_W09] The graduate possesses structured and advanced knowledge of the terminology and concepts used in biological and medical sciences and related disciplines.	Knows and understands the basic concepts and terminology used in the biological and medical sciences and concepts from related scientific disciplines	[SW1] oral statement/ conversation/discussion

<table>
<tr><td>Subject contents</td><td>The curriculum content covers topics in core courses and departmental research projects, including:

- biochemistry and biotechnology of plant lipids

- application of molecular biology tools in the diagnosis of human metabolic, cancer and infectious diseases

- diagnostics and photodynamic therapy to combat bacterial infections and cancer

- use of beneficial (antagonistic) bacteria, substances produced by them or bacteriophages in the protection of plants against bacterial pathogens

- the search for biologically active compounds of plant origin and other compounds (synthetic peptides, nanoparticles, etc.) to combat human and plant pathogens

- mechanisms determining the development of disease processes caused by bacteria on plants</td></tr>
<tr><td>Prerequisites and co-requisites</td><td>Knowledge and skills acquired during the completion of modules M01-M06</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>Diploma exam</td><td>0.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Materials from Modules 01-06
Scientific publications and literature items indicated by the instructors of the courses delivered as part of the syllabus of the
Modules 01-06
The latest published materials indicated by the lecturer</td></tr>
<tr><td>Supplementary literature</td><td>None</td></tr>
<tr><td>eResources addresses</td><td></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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