University of Gdańsk

Subject card

Subject name and code	Individual Laboratory, PG_00197624		
Field of study	Biotechnology		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2026/2027
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	2	Language of instruction	Polish
Semester of study	3	ECTS credits	2.0
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	dr hab. Wojciech Śledź mgr Anna Przychodzka prof. dr hab. Antoni Banaś dr hab. Katarzyna Jasieniecka-Gazarkiewicz dr hab. Rafał Dutkiewicz, prof. UG mgr inż. Julia Sroka dr Katarzyna Macur dr Anna Karłowicz dr Barbara Seroczyńska Kamil Łangowski dr Magdalena Rajewska Aleksandra Karpińska dr Maciej Adamowski	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	20.0	0.0	0.0	20
	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	20	5.0	25.0	50

Subject objectives	To become familiar with the specifics of working in a science laboratory. To acquire the ability to critically self-assess one's own knowledge and skills. To acquire the ability to organise the workplace and manage time effectively. Choosing a group within the individual laboratory allows the student to gain practical experience in an area aligned with the current research profile of the academic staff in that research group (as published on the universitys website).

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<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[BIOTECHL3_U08] The graduate is able to learn independently and in a targeted manner, develop his or her competences and plan their improvement.</td><td>Independently searches for, selects and uses scientific sources relevant to the subject of the lab and laboratory methods, critically assessing their value and relevance. Monitors own progress, identifies difficulties and applies corrective strategies (e.g. changing learning methods, additional analysis of material, consultation with the supervisor).</td><td>[SU2] presentation/project/paper/ report
[SU3] text preparation/written work
[SU8] observation of student's independent or team work</td></tr>
<tr><td>[BIOTECHL3_U01] The graduate possesses practical skills in performing laboratory procedures, documenting results, and applying techniques necessary in biotechnology, including methods of isolation, modification, selection, and analysis of organisms, tissues, cells, and molecules; has the ability to operate advanced laboratory.</td><td>Performs basic laboratory procedures used in biotechnology under the direction of the instructor or independently, in accordance with the instructions, including preparing solutions, performing measurements and performing analyses.
Applies techniques for isolating, purifying and analysing DNA, RNA or proteins from various types of biological material.
Operates basic laboratory equipment such as micropipettes, centrifuges, thermocyclers, spectrophotometers or laminar flow cabinets.
Documents the course of the experiment, activities performed and results obtained in the form of a laboratory journal or report.</td><td>[SU2] presentation/project/paper/ report
[SU3] text preparation/written work
[SU8] observation of student's independent or team work</td></tr>
<tr><td>[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.</td><td>Is able to identify areas of issues from a specific area of biotechnology, related to the subject of the laboratory, which require further deepening and supplementing of knowledge.
Shows initiative in searching for current scientific sources and specialist publications related to the subject of research in the laboratory.
Understands the need for continuous professional development and tracking scientific progress in the area of research related to a given laboratory.
Participates in discussions with a readiness to accept constructive criticism and formulate questions that deepen knowledge.</td><td>[SK2] presentation/project/paper/ report
[SK3] text preparation/written work
[SK8] observation of student's independent or team work</td></tr>
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<tr><td>Subject contents</td><td>A subject that develops the student's laboratory skills and his/her competences regarding the critical self-assessment of his/her own knowledge and skills, as well as teaching the organisation of his/her own work and proper time management. Selecting a group within the individual laboratory allows students to gain practical experience in an area related to the current research profile of that research group.</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></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>Written raport</td><td>0.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>Determined individually for each student - including scientific publications authored by members of the research group in which the course is undertaken.</td></tr>
<tr><td>Supplementary literature</td><td>None</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<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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