GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	DIPLOMA SEMINAR, PG_00038984						
Field of study	Biotechnology						
Date of commencement of studies	October 2023		Academic year of realisation of subject	2024/2025			
Education level	second-cycle studies		Subject group	Obligatory subject group 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	4		ECTS credits	2.0			
Learning profile	general academic profile		Assessment form	assessment			
Conducting unit	Department of Biotechnology and Microbiology -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Brillowska-Dąbrowska					
	Teachers	dr hab. inż. Anna Brillowska-Dąbrowska					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	15.0	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		2.0	33.0		50
Subject objectives	The aim of this course is to instruct students in the preparation (of the theoretical component) and presentation of a diploma project, as well as in discussing its results, which are presented in the form of a diploma thesis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K7_K01] has a sense of the importance of attitudes such as responsibility, goal-directedness and conscientiousness in one's work	The student is able to critically evaluate both the importance of his diploma project and the results of his work on its implementation. The student acquires a sense of the importance of detail in the implementation of a diploma project in biotechnology.	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
	[K7_W08] has a profound knowledge of methods of obtaining biotechnological products, possibilities and limitations related to the design of biotechnological processes, understands the specificity of the biotechnological industry, both in terms of organization, management and economic analysis	The student is aware of the limitations and possibilities associated with designing biotechnological processes or the components used therein, or is capable of selecting an appropriate method for obtaining a biotechnological product.	[SW1] Assessment of factual knowledge
	[K7_U09] is able to design experiments and analyze experimental results, is able to prepare and present papers, reports, documentation of experiments, technological processes using correct scientific and specialist terminology, and to prepare a correct bibliography	The student is capable of preparing and presenting, based on appropriate literature, a presentation on the theory essential for achieving the objective of the diploma project, as well as the results of the experimental work conducted.	[SU2] Assessment of ability to analyse information [SU5] Assessment of ability to present the results of task
	[K7_U10] is able to use knowledge about possibilities, aims and limitations of biotechnology to develop, design and obtain products and biotechnological processes in the area of his/her specialization	The student is capable of designing biotechnological processes or products, including their constituent parts or components.	[SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools
	[K7_U08] can analyze patent documents, can make a preliminary assessment of the patentability of a product, process or substance, can use patent databases	The student is capable of conducting an assessment of the patentability of the outcomes of their diploma project (e.g., solution, product, etc.).	[SU2] Assessment of ability to analyse information

Subject contents	• Introductory classes • Presentation of thesis topics • Independent preparation of table of contents (theoretical part) and joint analysis of table of contents • Discussion of editorial aspects of the thesis • Preparation of a bibliography (research query) • Presentation of literature integration into specific subchapters of the theoretical part • Preparation and analysis of a fragment of the theoretical introduction • Discussion of requirements for the diploma exam presentation • Presentations plus discussion
Prerequisites and co-requisites	The student must complete a full cycle of education at the 1st and 2nd degree, because the diploma seminar is the last course subject. The student must simultaneously carry out the diploma laboratory under which he implements the diploma project.

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>Presentation</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Assessment of the completeness of the table of contents after analysis and corrections</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Query evaluation</td><td>60.0%</td><td>25.0%</td></tr>
<tr><td>Evaluation of the submitted work fragment</td><td>60.0%</td><td>25.0%</td></tr>
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<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td>Literature databases offered by the Gdansk University of Technology Library:

-Web of Science

-SciFinder

-Scopus</td></tr>
<tr><td>Supplementary literature</td><td>Depending on the subject of the work</td></tr>
<tr><td>eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2">Discussing each student presentation in terms of content.

Questions to the presenter by the students and by the teacher.

Critical evaluation of the presented results.</td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
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