



Subject card

Subject name and code	DIPLOMA SEMINAR, PG_00038984						
Field of study	Biotechnology						
Date of commencement of studies	February 2023	Academic year of realisation of subject			2023/2024		
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	3	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Pharmaceutical Technology and Biochemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Sławomir Milewski					
	Teachers	prof. dr hab. inż. Sławomir Milewski					
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 the course is to teach students how to prepare and present the diploma project itself and discuss its results presented in the form of a diploma thesis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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 able to perform and to present a report on the experimental work and technological processes.	[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 can design biotechnological processes used in the food industry and obtain food products.	[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 knows how to conduct a product patentability assessment.	[SU2] Assessment of ability to analyse information
	[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 knows the limitations and opportunities associated with the design of biotechnological processes, is able to select an appropriate method for obtaining a biotechnological product.	[SW1] Assessment of factual knowledge
[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	
Subject contents	1. The lecturer presents the general assumptions for conducting diploma projects and discusses how to search literature using professional literature databases. 2. Students present multimedia studies presenting diploma projects. 3. Students present multimedia studies presenting the results of their work under diploma projects. 4. Students in writing prepare a short study (about one page long) presenting the purpose, assumptions and plan of the diploma thesis.		
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.		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Seminar I	0.0%	33.0%
	Prepared text	0.0%	34.0%
	Seminar II	0.0%	33.0%
Recommended reading	Basic literature	Literature databases offered by the Gdansk University of Technology Library: -Web of Science -SciFinder -Scopus	

	Supplementary literature	Public databases: Protein Data Bank (structural data base) UNIPROT (bioinformatics database)
	eResources addresses	Adresy na platformie eNauzanie:
Example issues/ example questions/ tasks being completed	<p>Discussing each student presentation in terms of content.</p> <p>Questions to the presenter by the students and by the teacher.</p> <p>Critical evaluation of the presented results.</p>	
Work placement	Not applicable	