GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BSc Diploma Seminar I, PG_00068102		
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2028/2029
Education level	first-cycle studies	Subject group	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	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Chemistry and Technology of Functional Materials -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	prof. dr hab. inż. Ewa Wagner-Wysiecka	
	Teachers		

Lesson types	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	1.0	9.0	25

Subject objectives	The course allows the student to become familiar with the formal requirements regarding the structure, style, and editorial rules of the diploma thesis. The student develops skills in searching for and selecting professional literature using specialized databases, as well as in critically analyzing scientific sources. The outcome of the work in this semester is the preparation and presentation of the literature review section of the diploma thesis.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_U10] can individually plan their own lifelong education, also by means of advanced information and communication technologies (ICT), and communicate with people from their environment, firmly justify their point of view, participate in debates, present, assess and discuss different opinions and points of view, as well as use specialist terminology related to the field of study in communication	The student is competent to plan and present methods of implementing an engineering task and to undertake a discussion and defense of the concepts being presented	[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment
[K6_K01] is ready to cultivate and disseminate models of proper behaviour in and outside the work environment; make independent decisions; critically evaluate actions of their own, teams they lead and organisations they are part of; take responsibility for results of these actions; responsibly perform professional roles, including:n - observing rules of professional ethics and require it from others,n - care for the achievements and traditions of the professionn	Student understands the ethical aspects of professional standards - including intellectual property; performs tasks in accordance with accepted principles.	[SK3] Assessment of ability to organize work
[K6_K02] is ready to critically assess possessed knowledge and acknowledge the importance of knowledge in solving cognitive and practical problems	Student is competent to critically analyze the results obtained with the use of methods and tools specific to the task at issue	[SK5] Assessment of ability to solve problems that arise in practice [SK2] Assessment of progress of work
[K6_W11] knows and understands, to an advanced extent, the general principles of setting up and development of business entities, forms of individual entrepreneurship and running ventures and the fundamental dilemmas of modern civilization and basic economic, legal and other conditions of various types of activities related to the field of study, including the basic concepts and principles in the field of industrial property and copyright protection	The student understands the importance of copyright law and industrial property protection in the process of preparing a diploma thesis and conducting engineering projects in the field of biomedical engineering, and is able to identify basic economic and ethical aspects related to the implementation of such undertakings.	[SW2] Assessment of knowledge contained in presentation

Subject contents

Course content – seminar

During the course, the following topics will be discussed and tasks carried out:

1. Structure of the diploma thesis discussion of formal requirements concerning layout, length, language, and writing style.
2. Principles of scientific writing logical consistency, linguistic accuracy, and application of academic style.
3. Academic responsibility principles of scientific integrity, correct citation of sources, and elimination of all forms of plagiarism.
4. Techniques for searching professional literature use of specialized databases (e.g. PubMed, Scopus, Web of Science).
5. Criteria for selecting scientific sources reliability, relevance, and academic quality.
6. Developing a literature review analysis and synthesis of data from scientific publications.
7. Introduction to reference management tools (e.g. Mendeley).
8. Preparation of a literature review presentation related to the diploma thesis topic and its formal presentation to the seminar group.

Prerequisites and co-requisites

The student has general and discipline-specific knowledge that enables the implementation of an engineering thesis topic in the field of biomedical engineering. The student is familiar with the fundamentals of research and design methods used in this discipline and is able to use professional literature.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Gathering of materials and preparation of a presentation based on the course content (items 1–7)	51.0%	35.0%
Preparation of a presentation summarizing the literature background of the engineering diploma thesis	51.0%	35.0%
Active participation in discussions during the seminar	51.0%	30.0%

Recommended reading

Basic literature	Indicated by the teacher tutor of graduate student

	Supplementary literature	Indicated by the teacher tutor of graduate student
	eResources addresses	
Example issues/ example questions/ tasks being completed	1. What elements should a properly structured diploma thesis include? 2. How to plan the structure of a literature review depending on the thesis topic? 3. How to identify and avoid practices considered plagiarism? Rules of citation, paraphrasing, and using sources. 4. Exercise: searching for scientific publications in databases (e.g. Scopus, PubMed) and preparing a literature review presentation related to the diploma thesis topic.	
Practical activites within the subject	Not applicable	

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