GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	BSc Diploma Project I, PG_00068227						
Field of study	Biomedical Engineering						
Date of commencement of studies	October 2025		Academic year of realisation of subject	2027/2028			
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	2.0			
Learning profile	general academic profile		Assessment form	assessment			
Conducting unit	Department of Biomedical Engineering -> Faculty of Electronics Telecommunications and Informatics -> 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	30.0	0.0	30
	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	30		2.0	18.0		50
Subject objectives	Preparing the student for the implementation of the diploma project, and then systematically monitoring the progress of his own work on the project, giving him advice, advice and tips. Checking the practical effects of the project work.						

<table>
<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>[K6_U03] can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment</td><td>he student is able to design and create a simple device, object, or system related to their field of study, in accordance with the given specifications, using appropriate methods, techniques, and materials characteristic of the field. The student can apply engineering standards and norms, drawing on the experience gained in engineering practice, particularly in the area of biomedical engineering related to its chemical aspects.</td><td>[SU1] Assessment of task fulfilment</td></tr>
<tr><td>[K6_U11] can plan and organise individual and team work</td><td>The student is able to plan the stages of a project, using project planning tools and monitoring its progress. In the case of team projects, the student can create and adhere to team work schedules, with task distribution among individual team members.</td><td>[SU5] Assessment of ability to present the results of task
[SU1] Assessment of task fulfilment</td></tr>
<tr><td>[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</td><td>The student is ready to cultivate and promote proper conduct patterns during the implementation of the engineering diploma project and beyond. The student is able to make independent decisions, critically assess their own actions, the actions of teams they lead, and the teams they participate in. The student takes responsibility for the consequences of these actions, responsibly performs professional roles, adheres to professional ethics, and cares for the achievements and traditions of the engineering profession.</td><td>[SK4] Assessment of communication skills, including language correctness
[SK5] Assessment of ability to solve problems that arise in practice</td></tr>
<tr><td>[K6_U08] while identifying and formulating specifications of engineering tasks related to the field of study and solving these tasks, can:n- apply analytical, simulation and experimental methods,n- notice their systemic and non-technical aspects,n- make a preliminary economic assessment of suggested solutions and engineering work n</td><td>Student knows the tools for CAD type design, Matlab simulation environments, software development environments, text editing and presentation tools. Demonstrates the ability to plan project work, taking into account technical and economic realities.</td><td>[SU5] Assessment of ability to present the results of task
[SU4] Assessment of ability to use methods and tools
[SU2] Assessment of ability to analyse information</td></tr>
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<tr><td>Subject contents</td><td>Course content – project
The subject is the student's own work project, under the supervision of a supervisor and consultants.</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>frequency of contacting a supervisor and a project consultant</td><td>30.0%</td><td>30.0%</td></tr>
<tr><td>progress of project implementation, commitment to own work</td><td>70.0%</td><td>70.0%</td></tr>
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<tr><td>Recommended reading</td><td>
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<tr><td>Basic literature</td><td>The literature is indicated to the student implementing the project in accordance with the subject of the project.</td></tr>
<tr><td>Supplementary literature</td><td>Supplementary literature is indicated to the student implementing the project in accordance with the subject of the project.</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>The main tasks for students implementing the project are to develop a review part based on a literature analysis, formulation of project assumptions and demonstration of progress in construction works, implementations and experiments.</td></tr>
<tr><td>Practical activites within the subject</td><td>Not applicable</td></tr>
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