



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		dr Brygida Mielewska				
	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.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[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	Student - depending on the specifics of the diploma project, is able to design, in accordance with the specification and/or perform measurements typical for the field of study, a simple device, object, system, software or implement a process using methods and tools based on engineering standards and norms	[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	The student, acting independently or in a team, consciously, with due care and accuracy, performs measurements, studies and contributes to the dissemination of knowledge about medical physics in society	[SK5] Assessment of ability to solve problems that arise in practice [SK4] Assessment of communication skills, including language correctness
	[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	He 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.	[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
	[K6_U11] can plan and organise individual and team work	Is able to plan the project stages, using tools for project planning and monitoring its progress. In the case of team work, he can create and apply to team work schedules, running with the division of tasks between individual contractors.	[SU1] Assessment of task fulfilment [SU5] Assessment of ability to present the results of task
Subject contents	Course content – project The subject is the student's own work project, under the supervision of a supervisor and consultants.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	frequency of contacting a supervisor and a project consultant	30.0%	30.0%
	progress of project implementation, commitment to own work	70.0%	70.0%
Recommended reading	Basic literature	The literature is indicated to the student implementing the project in accordance with the subject of the project.	
	Supplementary literature	Supplementary literature is indicated to the student implementing the project in accordance with the subject of the project.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	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.		
Practical activites within the subject	Not applicable		

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