

## Subject card

Subject name and code	MSc Diploma Thesis I, PG_00053404								
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering								
Date of commencement of studies	February 2023		Academic year of realisation of subject			2023/			
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to sciel research in the field of study		ted to scientific	
Mode of study	Full-time studies		Mode of de	elivery		at the university			
Year of study	1		Language	e of instruction Polish					
Semester of study	2		ECTS cred	credits 4.0					
Learning profile	general academic pr	ofile	Assessme	essment form assessment					
Conducting unit	Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Mariusz Kaczmarek						
	Teachers		dr hab. Marcin Gruszecki						
			dr inż. Adam Bujnowski						
			prof. dr hab. inż. Jerzy Wtorek						
				dr Michał Kucewicz					
			dr hab. inż. Piotr Szczuko						
			dr Brygida Mielewska						
			dr inż. Tomasz Kocejko						
			dr Tomasz Neumann						
			dr inż. Anna Węsierska						
			dr inż. Magdalena Mazur-Milecka						
		prof. dr hab. inż. Jacek Rumiński							
		dr inż. Grzegorz Jasiński							
			prof. dr hab. inż. Bożena Kostek						
			dr hab. inż. Grzegorz Lentka						
			prof. dr hab. inż. Grzegorz Redlarski						
			dr hab. inż. Mariusz Kaczmarek						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial Laboratory Project Se				Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0	-	0.0	0	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation classes included				Self-study		SUM	
	Number of study hours	0		30.0		70.0		100	
Subject objectives	To familiarize studer method of evaluation								

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Learning outcomes	Course outcome	Subject outcome	Method of verification			
	[K7_W09] Knows and understands, to an increased extent, the economic, legal and other conditions of various types of activities related to the given qualification, including the principles of protection of industrial property and copyright.	The student knows the rules of protection intellectual values. understands the impact of your actions on economics and environment in which operates.	[SW3] Assessment of knowledge contained in written work and projects [SW2] Assessment of knowledge contained in presentation			
	[K7_U10] can individually plan and pursuit their own lifelong education and influence others in this aspect, also by means of advanced information and communication technologies (ICT), and communicate on specialist issues with diverse recipients, appropriately justify points of view, hold 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 knows the basic techniques of data modeling, key standards for IT systems and equipment, medical security techniques, computer methods of supporting diagnostics, and TI used in various fields of health care.	[SU2] Assessment of ability to analyse information			
	[K7_U08] while identifying and formulating engineering tasks specifications 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 workn	The student knows the basic data modeling techniques, key standards for information systems. The student knows the principles of intellectual property protection. Understands the impact of their activities on the economics and environment in which they operate.	[SU1] Assessment of task fulfilment			
	[K7_K02] is ready to provide critical evaluation of received content and to acknowledge the importance of knowledge in solving cognitive and practical problems	The student knows and understands the principles of scientific work, research methods, and determine the conditions of their use	[SK5] Assessment of ability to solve problems that arise in practice			
	[K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way	Is able to work in a group, identify basic problems in the work environment and propose methods to solve them.	[SK1] Assessment of group work skills [SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Literature studies the issues under consideration. Choice, justification and development of research methods. Testing, calculations, analysis of the results, the project proposal. The implementation of the project. Comparative analysis, conclusions.					
Prerequisites and co-requisites						
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Master Thesis	60.0%	100.0%			
Recommended reading	Basic literature	Depends on studied topics				
	Supplementary literature	Depends on studied topics				
	eResources addresses Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

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