



Subject card

Subject name and code	Diploma laboratory, PG_00064445						
Field of study	Biomedical Engineering, Biomedical Engineering, Biomedical Engineering						
Date of commencement of studies	February 2025		Academic year of realisation of subject		2025/2026		
Education level	second-cycle studies		Subject group		Optional subject group Specialty 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	2		Language of instruction		Polish		
Semester of study	3		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						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Ewa Wagner-Wysiecka				
	Teachers						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	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		8.0	25
Subject objectives	Implementation of the master's degree programme						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_U51] can conduct complex laboratory work connected with chemistry and biochemistry, specific to biomedical engineering		Student know the principles of measuring instrumentation and can use it correctly to carry out experimental work. The student is capable of working safely in a chemical laboratory according to accepted safety and hygiene principles.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
	[K7_U12] is able, to an increased extent, to analyze the operation of components and systems related to the field of study, as well as to measure their parameters and study their technical characteristics, and to plan and carry out experiments related to the field of study, including computer simulations, interpret the obtained results and draw conclusions		Students will be able to plan a suitable experiment, carry it out, process the results and interpret them		[SU2] Assessment of ability to analyse information [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 learns the essential importance of knowledge in solving scientific and practical problems; he/she is able to evaluate and verify the results obtained during experimental work and to relate them to literature data		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_K71] is able to explain the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment		The student is aware of the importance of non-technical aspects and implications of engineering and scientific activities and the impact of scientific development on society		[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	In accordance with the work plan described in the thesis topic, dependent on the thesis topic						

Prerequisites and co-requisites	Full degree cycle		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Evaluation of the tasks carried out	100.0%	100.0%
Recommended reading	Basic literature	Depending on the thesis topic; taking into account original fundamental and recent scientific articles related to the thesis topic.	
	Supplementary literature	Depending on the thesis topic; taking into account original fundamental and recent scientific articles related to the thesis topic.	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Depending on the subject of the work		
Work placement	Not applicable		

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