

Subject card

Subject name and code	Design work and student experiments, PG_00142579						
Field of study	Chemistry						
Date of commencement of studies	October 2024	Academic year of realisation of subject				2025/2026	
Education level	Master's studies	Subject group				Optional subject group	
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				3.0	
Learning profile	academic	Assessment form				credit	
Conducting unit	Division of Didactics and Popular Science -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Bożena Karawajczyk				
	Teachers		dr Bożena Karawajczyk				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	60.0	0.0	0.0	60
	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	60		2.0		13.0	75
Subject objectives	Gain the ability to use chemical experiments in chemistry education and organize students' experimental activity						
Learning outcomes	Course outcome		Subject outcome			Method of verification	
			<p>Knowledge D.1/E.1.W7. organization of work in the school classroom and groups: the need for individualization of teaching, the issue of interdisciplinary teaching, forms of work specific to the subject or type of classes: excursions, field and laboratory activities, experiments</p> <p>Skills D.1/E.1.U5. create didactic situations for activity and development of students' interests and popularization of knowledge; D.1/E.1.U10. Recognize typical for the taught subject or conducted classes student mistakes and use them in the didactic process;</p> <p>Social competencies D.1/E.1.K2. popularize knowledge among students and in school and extracurricular environments; D.1/E.1.K3. encourage students to make research attempts;</p>			[SK6] demonstration of practical skills	
Subject contents	<ul style="list-style-type: none"> - technique of school chemical experiment - The use of laboratory method, including problem solving, in chemical education 						

Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		51.0%	100.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> - Curriculum basis for the subject Chemistry at all stages of education (available on the website of the Ministry of Education) - Current textbooks approved by the Ministry of Education for teaching chemistry in elementary and secondary school - R. Piosik, B. Karawajczyk, Demonstration Technique and Laboratory Exercises in the Methodology of Teaching Chemistry and Environmental Protection, University of Gdansk Publishing House, 2004 	
	Supplementary literature	Current exercise books for teaching chemistry	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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