

Subject card

Subject name and code	Design work and student experiments, PG_00142579						
Field of study	Chemistry						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study 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						
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		
			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 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; 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;		[SK6] demonstration of practical skills		
Subject contents	- 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	- 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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