University of Gdańsk

Subject card

Subject name and code	Didactics of chemistry in a primary school, PG_00143289						
Field of study	Chemistry						
Date of commencement of studies	October 2026		Academic year of realisation of subject	2026/2027			
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	1		Language of instruction	Polish			
Semester of study	2		ECTS credits	2.0			
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	30.0	0.0	0.0	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		5.0	15.0	50	
Subject objectives	Learning of knowledge of chemistry didactics necessary for the profession of a chemistry teacher in primary school						

Learning outcomes	Course outcome	Subject outcome	Method of verification
		Knowledge D.1/E.1.W3. intra- and inter-subject integration; issues related to the related to curriculum - creation and modification, analysis, evaluation, selection and approval, and principles of designing the educational process and the distribution of material; D.1/E.1.W4. the substantive, didactic and educational competence of the teacher, including the the need for professional development, including with the use of technology information and communication technology, and to adapt the way of communication to the level of development of students and stimulate cognitive activity students, including the creation of teaching situations; the importance of the authority of the of the teacher and the principles of student-teacher interaction in the course of a lesson; moderation of interaction between students; the role of the teacher as a popularizer of knowledge, and the importance of the teacher's cooperation in the didactic process with parents or guardians of students, school staff D.1/E.1.W5. conventional and unconventional teaching methods, including the activating and project methods, the process of learning by doing, discovery or scientific inquiry, and student research work, as well as the principles of selection of teaching methods typical for a particular subject or type of class; D.1/E.1.W6. the methodology of implementation of individual educational content within the subject or classes - substantive and methodological solutions, good practices, adaptation of interactions to the needs and capabilities of students or groups of students with different potential and learning style, typical mistakes of the subject or type of classes students, their role and ways to use them in the teaching process; D.1/E.1.W10. The role of diagnosis, control and assessment in teaching work; assessment and its types: current assessment, semester and annual assessment, internal assessment and external assessment; functions of assessment; D.1/E.1.W12. Initial diagnosis of the student group and each student in the context of the taught subject or classes taught, and ways to support the cognitive development of cognitive development of students; the need to form concepts, attitudes, skills practical, including problem solving, and use of knowledge;	

Course outcome	Subject outcome	Method of verification
	D.1/E.1.W13. the importance of developing personal and social-emotional skills students: the need to develop students' cooperation skills, including group problem solving, as well as building a system of values and developing ethical attitudes of students, as well as the formation of competence communication and cultural habits; skills D.1/E.1.U1. identify typical school tasks with the goals of education, in particular with the general requirements of the core curriculum, and with the competencies of the key competencies; D.1/E.1.U7. select classroom methods and teaching resources, including those of information and communication technology, activating students and taking into account their differentiated educational needs; D.1/E.1.U9. construct a test to assess the given skills of students; social competencies D.1/E.1.K1. adapt working methods to the needs and different learning styles of students;	

Subject contents	Organization of chemical education in Poland Methods of chemical education Methods of implementation of selected educational content in elementary school
Prerequisites and co-requisites	Course credit: General didactics

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Completion of all the credit work	50.0%	0.0%

Recommended reading		
	Basic literature	A. Burewicz, H. Gulińska (red.), "Dydaktyka chemii", Wydawnictwo naukowe UAM, 2002 J. D. Herron, Lekcja chemii. O skutecznym sposobie uczenia, PWN, 2000 Podręczniki do nauczania chemii dopuszczone do użytku szkolnego decyzją Ministra Edukacji Narodowej
	Supplementary literature	
	eResources addresses	
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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