

Subject card

Subject name and code	Knowledge lab - chemistry in action, PG_00207499						
Field of study	Chemical Business						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Optional subject group		
Mode of study	full-time studies		Mode of delivery		e-learning		
Year of study	2		Language of instruction		Polish		
Semester of study	4		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	25.0	0.0	0.0	0.0	0.0	25
	E-learning hours included: 25.0						
	eNauczanie source address: https://navoica.pl/						
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	25		2.0		23.0	50
Subject objectives	Acquiring a basic understanding of the natural sciences in the context of the challenges posed by the modern economy, the green transition and the digitalisation of education.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[BCHINŻ_U01] On the basis of the acquired knowledge, identifies, analyses and solves engineering tasks and problems in broadly understood chemistry.		Student independently makes appropriate observations and draws conclusions, and correctly interprets diagrams and graphs from the experiments presented.		[SU4] test/exam - oral or written		
	[BCHINŻ_K02] Works individually demonstrating initiative and independence in actions, and effectively cooperates in a team, performing various roles in it.		The student independently plans their own learning and makes optimal use of their time by completing and passing the individual modules.		[SK4] test/exam - oral or written		
	[BCHINŻ_W06] Enumerates basic unit processes and describes issues in the field of technology and chemical engineering.		Student describes the fundamental chemical laws and phenomena relating to stoichiometry and chemical kinetics, and is able to identify their practical applications.		[SW4] test/exam - oral or written		
Subject contents	Fundamentals of stoichiometry Fundamentals of chemical kinetics Chemical processes used for energy production Basic issues concerning corrosion Waste management Selected pollutants and their impact on the environment Methods of water treatment and rational water resource management Principles of safe working practices in a chemistry laboratory						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	completing a test	60.0%	100.0%
Recommended reading	Basic literature	ang	
	Supplementary literature	do uzup	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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