

Subject card

Subject name and code	Organic Chemistry, PG_00188281						
Field of study	Chemia organiczna (Ćw.laboratoryjne)						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2026/2027		
Education level	Bachelor's studies		Subject group		Obligatory subject group in the field of study 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	1		Language of instruction		Polish POLISH		
Semester of study	2		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Carbohydrate Chemistry -> Department of Organic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Barbara Dmochowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	30.0	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	Practical acquisition and improvement of skills in working in a chemical laboratory, determination of the physicochemical properties of organic compounds, determination of the purity of compounds using chromatographic methods, analysis and identification of selected classes of organic compounds by classical chemical analysis.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[AKRL3_K01] The graduate is ready to critically evaluate their own knowledge, understand its importance for solving cognitive and practical problems, and to seek expert opinions when necessary.	The graduate understands the need for continuous learning and updating knowledge in the field of organic chemistry and related disciplines. They are aware of their own limitations and know when to seek advice from experts.	[SK8] obserwacja samodzielnej lub zespołowej pracy studenta
	[AKRL3_U02] The graduate can plan and organize individual and team work and collaborate with others in team projects (including interdisciplinary teams).	The graduate describes chemical facts and processes and, on this basis, is able to plan and organize both individual and team work.	[SU6] demonstracja umiejętności praktycznych
	[AKRL3_K06] The graduate is ready to follow occupational health and safety regulations in the laboratory and care for the safety of themselves and others.	The graduate has been trained in health and safety regulations and therefore understands and follows the principles and procedures of safe work in laboratories.	[SK6] demonstracja umiejętności praktycznych
	[AKRL3_U09] The graduate is able to independently plan and implement their professional development and lifelong learning.	The graduate has the ability to plan their own ideas and provide appropriate argumentation in the context of selected theoretical, practical, and professional perspectives.	[SU6] demonstracja umiejętności praktycznych
	[AKRL3_W10] The graduate knows and understands the principles of safe work in chemical and biological laboratories, including procedures for handling hazardous and infectious materials.	The graduate has been trained in the principles and procedures of safe work and therefore understands and follows the rules and procedures of safe practice in chemical and biological laboratories. They are aware of the proper disposal of hazardous and infectious compounds.	[SW5] realizacja zadania problemowego
Subject contents	1. Separation of two or three organic compounds by extraction. 2. Identification of organic compounds using thin-layer chromatography (TLC). 3. Purification of an organic compound by crystallization. 4. Separation of two organic compounds by distillation. 5. Qualitative chemical analysis of selected organic compounds.		
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	Kupryszewski G., Sobocińska M., Walczyna R. 1988. Podstawy preparatyki związków organicznych. Wyd. Gdańskie, Gdańsk.	
		Walczyna R., Sokołowski J., Kupryszewski G. 1996. Analiza związków organicznych. Wyd. UG, Gdańsk	
	Supplementary literature	Lecturer will indicate additional literature on an ongoing basis.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	1. Explain the principle of liquid-liquid extraction and provide an example of its application in the analysis of drug traces. 2. How does the choice of solvent affect the effectiveness of crystallization? 3. What type of distillation can be used in the examination of samples (e.g., alcohol) secured at a crime scene?		
Work placement	Not applicable		

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