



## Subject card

Subject name and code	Organic chemistry, PG_00051120						
Field of study	Chemical Technology						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2024/2025		
Education level	first-cycle studies		Subject group				
Mode of study	Full-time studies		Mode of delivery		at the university		
Year of study	4		Language of instruction		Polish		
Semester of study	7		ECTS credits		3.0		
Learning profile	general academic profile		Assessment form		assessment		
Conducting unit	Department of Organic Chemistry -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor		prof. dr hab. inż. Maria Milewska				
	Teachers		prof. dr hab. inż. Maria Milewska				
Lesson types and methods of instruction	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		0.0		0.0	60
Subject objectives	Learning the basics of organic preparation.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	K6_W02		The student knows laboratory techniques such as crystallization, distillation, sublimation. The student knows the properties of the basic groups of organic compounds.		[SW3] Assessment of knowledge contained in written work and projects		
	K6_U03		The student is able to independently plan and carry out the synthesis of an organic compound, and also uses appropriate techniques for purification of compounds.		[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment		
Subject contents	Organic preparation techniques, methods for purifying organic compounds, conducting reactions under anhydrous or anaerobic conditions. Practical knowledge of the properties of the main groups of organic compounds. Identification of compounds based on physico-chemical properties.						
Prerequisites and co-requisites	Passed subject: Organic Chemistry, semesters IV and V, Organic chemistry, PG_00035963 and Organic chemistry, PG_00035967						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Entrance tests and scores for individual preparations.		60.0%		100.0%		

Recommended reading	Basic literature	<p>R. T. Morison; R. N. Boyd; Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 1996.</p> <p>J. McMurry Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 2000.</p> <p>J. D. Caserio, M. C. Roberts, CHEMIA ORGANICZNA, PWN Warszawa, 1969.</p> <p>K. Dzierzbicka, G. Cholewiński, J. Rachoń, Chemia Organiczna dla Opornych, Wydawnictwo PG, Gdańsk 2013</p>
	Supplementary literature	<p>J. March Chemia Organiczna- reakcje , mechanizmy , budowa. Wydawnictwo Naukowo Techniczne , Warszawa 1975.</p> <p>J. Gawroński, K. Gawrońska, K. Kacprzak, M. Kwit WSPÓŁCZESNA SYNTEZA ORGANICZNA, WN PWN Warszawa 2004.</p> <p>J. March CHEMIA ORGANICZNA - Reakcje, mechanizmy, budowa, WNT Warszawa 1975.</p> <p>H. O. House NOWOCZESNE REAKCJE SYNTEZY ORGANICZNEJ, PWN Warszawa 1979.</p> <p>T. W. G. Solomons ORGANIC CHEMISTRY - 6th ed, John Wiley &amp; Sons, Inc. New York, 1996.</p>
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Health and safety regulations in a chemical laboratory.Stoichiometric calculations of chemical reactions, conversion of concentrations, preparation of solutions.Crystallization, distillation, extraction.Acid-base properties of organic and inorganic compounds.Chemical properties of basic groups of organic compounds.Techniques for conducting chemical reactions.</p>	
Work placement	Not applicable	

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