



## Subject card

Subject name and code	Preparation of Organic Compounds, PG_00060869						
Field of study	Chemical Technology						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	3	Language of instruction			Polish		
Semester of study	5	ECTS credits			4.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Department of Organic Chemistry -> Faculty of Chemistry -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Monika Gensicka-Kowalewska				
	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		5.0		55.0	120
Subject objectives	Students should know, understand, and use basic methods and techniques used in synthesis, such as extraction, simple distillation, reduced-pressure distillation, steam distillation, and crystallization. They should be able to plan the synthesis and ensure appropriate reaction conditions (maintain anhydrous conditions, prepare appropriate baths to maintain the appropriate reaction temperature, etc.).						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W02] Possesses the chemical knowledge necessary to synthesize, analyze and evaluate the properties of compounds and processes used in chemical technology.	has basic knowledge of organic chemistry, knows the basic physical and chemical properties of selected groups of organic compounds, and is able to describe processes used in organic technology.			[SW1] Assessment of factual knowledge		
	[K6_K02] is aware of the responsibility for his/her work and is ready to work in a team and share responsibility for common tasks.	understands and adheres to the health and safety regulations in force in the laboratory. They are aware of the importance of behaving in a professional manner.			[SK4] Assessment of communication skills, including language correctness		
	[K6_U03] Uses chemical knowledge to design compounds, perform physicochemical and analytical measurements, and obtain appropriate sources of information.	is able to plan the synthesis of organic compounds based on acquired knowledge of organic chemistry. Student is able to plan his or her own learning and is able to use information sources.			[SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	Course content – laboratory Single- and multi-step syntheses of selected preparations belonging to various classes of organic compounds.						
Prerequisites and co-requisites	Completed classes in Organic Chemistry semester III and IV						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	Entry tests and point assessments 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	
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>	
Practical activities within the subject	Not applicable	

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