

Subject card

Subject name and code	Preparation of Organic Compounds, PG_00060869							
Field of study	Preparatyka związków organicznych							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028		
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						f Technology	
Name and surname	Subject supervisor		dr inż. Monika Gensicka-Kowalewska					
of lecturer (lecturers)	Teachers							
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	 		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 classes include 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_K02] is aware of the responsibility for his/her work and is ready to work in a team and share responsibility for common tasks.		Student 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] Ocena umiejętności komunikacji, w tym poprawności językowej		
	[K6_U03] Uses chemical knowledge to design compounds, perform physicochemical and analytical measurements, and obtain appropriate sources of information.		Student 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.			[SU3] Ocena umiejętności wykorzystania wiedzy uzyskanej w ramach przedmiotu [SU2] Ocena umiejętności analizy informacji		
	[K6_W02] Possesses the chemical knowledge necessary to synthesize, analyze and evaluate the properties of compounds and processes used in chemical technology.		Student 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] Ocena wiedzy faktograficznej		
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	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	Entry tests and point for individual prepara	assessments	60.0%	-		100.0%		

Recommended reading	Basic literature	R. T. Morison; R. N. Boyd; Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 1996. J. McMurry Chemia Organiczna, Wydawnictwo naukowe PWN, Warszawa 2000. J. D. Caserio, M. C. Roberts, CHEMIA ORGANICZNA, PWN Warszawa, 1969. K. Dzierzbicka, G. Cholewiński, J. Rachoń, Chemia Organiczna dla Opornych, Wydawnictwo PG, Gdańsk 2013			
	Supplementary literature	J. March Chemia Organiczna- reakcje , mechanizmy , budowa. Wydawnictwo Naukowo Techniczne , Warszawa 1975.			
		J. Gawroński, K. Gawrońska, K. Kacprzak, M. Kwit WSPÓŁCZESNA SYNTEZA ORGANICZNA, WN PWN Warszawa 2004.			
		J. March CHEMIA ORGANICZNA - Reakcje, mechanizmy, budowa, WNT Warszawa 1975.			
		H. O. House NOWOCZESNE REAKCJE SYNTEZY ORGANICZNEJ, PWN Warszawa 1979.			
		T. W. G. Solomons ORGANIC CHEMISTRY - 6th ed, John Wiley & Sons, Inc. New York, 1996.			
	eResources addresses				
Example issues/ example questions/ tasks being completed	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.				
Practical activites within the subject	Not applicable				

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Data wygenerowania: 26.11.2025 11:13 Strona 2 z 2