

## Subject card

Subject name and code	, PG_00057783								
Field of study	Green Technologies								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2023/2024			
Education level	first-cycle 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	2		Language of instruction			English			
Semester of study	4		ECTS credits			7.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Organic Chemistry -> Faculty of Chemistry								
Name and surname	Subject supervisor prof. dr hab. inż. Dariusz Witt								
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	45.0	30.0	0.0	0.0		0.0	75	
	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	75	10.0			90.0		175	
	compounds formation and transformation is described by student. The students are able to compare and predict reactivity of organic compounds. The course of reaction and transformation of organic compounds are elucidated by students. The knowledge of reactions mechanism reflected in optimal transformation is appreciated by students. The theory is combined with practical synthesis of organic compounds.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U01] is able to obtain information from literature, databases and other sources, is able to integrate the information obtained, to make their interpretation, as well as draw conclusions and formulate and justify opinions, take part in the discussion		Student is able to gather information from chemical literature. The information is used to explain and understand scientific problems.			[SU4] Assessment of ability to use methods and tools [SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment			
	[K6_W02] has a basic knowledge of chemistry including general chemistry, inorganic, organic, physical, analytical, including the knowledge necessary to describe and understand the phenomena and chemical processes occurring in the environment; measurement and the determination of the parameters of these processes.		Student has got a knowledge of chemical transformations and basic methods of purification for organic compounds.			[SW1] Assessment of factual knowledge			
	engineering tasks an methods, simulation experimental, able to knowledge of basic pmathematics to analyresults of experimentanalyze and assess technical solutions			can formulate and solve engineering tasks related to organic chemistry		[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject			
Subject contents	Basic purification techniques for organic compounds. The synthesis of selected solid and liquid compounds.								

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Prerequisites and co-requisites						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	The synthesis of 4 compounds	60.0%	100.0%			
Recommended reading	Basic literature R.T. Morrison, R.N. Boyd "Organic Chemistry"  Vogel, "Practical Organic Chemistry"		·			
	Supplementary literature	R.T. Morrison, R.N. Boyd "Organic Chemistry"  Vogel, "Practical Organic Chemistry"				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	1. Present the basic methods for purification of solid compounds.  2 Present the basic methods for purification of liquid compounds.  3. What is the solid phase extraction?					
Work placement	Not applicable					

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