

**Subject card**

<b>Subject name and code</b>	Chemistry in practice, PG_00080722						
<b>Field of study</b>	Chemical Business						
<b>Date of commencement of studies</b>	October 2024	<b>Academic year of realisation of subject</b>			2025/2026		
<b>Education level</b>	Bachelor's studies	<b>Subject group</b>			Obligatory subject group in the field of study		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			Polish polish		
<b>Semester of study</b>	4	<b>ECTS credits</b>			1.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>	Laboratory of Carbohydrate Chemistry -> Department of Organic Chemistry -> Faculty of Chemistry -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr hab. Janusz Madaj				
	<b>Teachers</b>		dr hab. Janusz Madaj				
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		2.0		8.0	25
<b>Subject objectives</b>	familiarizing students with the issues mentioned in the lecture program content, familiarize students with the basic economic principles of the chemical industry, developing the ability to critically evaluate and interpret the presented information and analyze source texts						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[BCHINŻ_W01] Describes the relationship between the economy and the functioning of the chemical industry.	1. defines and presents selected chemical processes and engineering methods in the chemical industry 2. describes and illustrates selected industrial processes using chemical reactions 3. understands the connections and dependencies between economics and the functioning of the chemical industry	[SW4] test/exam - oral or written
	[BCHINŻ_U08] Uses the chemical nomenclature and engineering terminology properly.	1. uses chemical terminology to the extent necessary to present (in written and oral form) the course content 2. predicts the course of selected industrial chemical reactions and the products of these transformations 3. uses basic analytical techniques used in the analysis of industrial products 4. can indicate engineering techniques important in the chemical industry 5. can indicate important economic aspects of the chemical industry	[SU4] test/exam - oral or written
	[BCHINŻ_U05] Evaluates the usefulness and functioning of existing engineering and technical solutions as well as research and measurement methods in the chemical industry.	1. uses chemical terminology to the extent necessary to present (in written and oral form) the course content 2. predicts the course of selected industrial chemical reactions and the products of these transformations 3. uses basic analytical techniques used in the analysis of industrial products 4. can indicate engineering techniques important in the chemical industry 5. can indicate important economic aspects of the chemical industry	[SU4] test/exam - oral or written
Subject contents	As part of the course, students will become familiar with selected aspects of the functioning of the chemical industry. They will include information about the dyeing, food and biochemical industries. There will be information about technological processes and engineering techniques used in various branches of the chemical industry (various types of fermentations, techniques used in the metallurgical, electronics and biomedical industries). Economic issues of the functioning of the chemical industry and its importance in the functioning of the country's economy will be presented and discussed.		
Prerequisites and co-requisites	Basic knowledge of general and organic chemistry		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Pass with grade	51.0%	100.0%
Recommended reading	Basic literature	Ali El Ali Speight, Handbook of Industrial Chemistry Organic Chemicals Supplementary materials provided during classes, online materials	
	Supplementary literature	non	
	eResources addresses		
Example issues/ example questions/ tasks being completed	Consistent with the content of the lecture		
Work placement	Not applicable		

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