

Subject card

Subject name and code	Chemistry in practice, PG_00080722						
Field of study	Chemical Business						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
Education level	Bachelor's 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		Polish		
Semester of study	4		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Laboratory of Carbohydrate Chemistry -> Department of Organic Chemistry -> Faculty of Chemistry -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. Janusz Madaaj				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		2.0		8.0	25
Subject objectives	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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