

	KAPITAŁ LUDZKI NARODOWA STRATEGIA SPÓJNOŚCI	Projekt współfinan Unię Europejska Europejskiego Społeczr	ą w ramach Funduszu	Z UNIA EUROPEJSKA EUROPEJSKI FUNDUSZ SPOŁECZNY	* * * * * * *	
Course title			EC	TS code		
Chemistry in practi		13.3.0753				
Name of unit admin						
null						
Studies						
faculty	field of study	type all				
Faculty of Chemistry	Chemical Business	form all				
		specialty all specialization all				
Teaching staff	dai profesor uczelni					
dr hab. Janusz Madaj, profesor uczelni Forms of classes, the realization and number of hours			EC	ECTS credits		
Forms of classes				2		
Auditorium classes, Lecture				classes - 30 h		
The realization of activities				tutorial classes – 5 h		
classroom instruction				student's own work – 15 h		
Number of hours						
Auditorium classes	S		Total: 50 h - 2 ECTS			
The academic cycle	•					
2023/2024 summe	er semester	1				
Type of course	Language of	Language of instruction				
obligatory	polish					
Teaching methods		Form and method of assessment and basic criteria for eveluation or examination requirements				
- 15 h Auditorium c		Final evaluation				
- multimedia-based	Graded c	Graded credit				
		_	Assessment methods			
	written te	written test with open-ended questions, oral exam				
		The basic criteria for evaluation				
	The basic crite	The basic criteria for evaluation or exam requirements				
		• positive assessment of the written exam consisting of 5-10 open questions covering				
		issues mentioned in the course contents of the subject; answers to the questions will				
		require solving tasks related to the saved learning outcomes; the grading scale will be adapted to the rules of the study regulations;				
		 for students who have obtained a written exam from 50 to 30% of correct answers - an 				
	oral exam - a	oral exam - a positive assessment of the answers to 3 questions ;				
		• the condition to take the exam is to get credits from the auditorium classes				
	Auditorium cla		tations prepared on the basis of	of selected literature material		
			• presentation of 1-2 presentations prepared on the basis of selected literature material, active participation in the group's work and discussion of the presented problems			
Method of verifying	required learning outcome				·	
Required courses a	nd introductory requireme	nts				
A. Formal requirement none	nts					
B. Prerequisites						
	he field of general and organic of	chemistry				
Aims of education						



Aims of education	
 familiarize students with the issues mentioned in the lecture acquainting students with the basic economic principles of 	
 developing the skills of critical evaluation and interpretation 	
Course contents	
and biochemical industries. There will be known about techn	spects of the chemical industry. Among them, they will be inform about the dyeing, food nological processes and engineering techniques used in various branches of the chemica the metallurgical, electronic and biomedical industries). The economic issues of the country's economy will be presented and discussed.
Bibliography of literature	
Bibliography of literature Literature required to pass the course Ali El Ali Speight, Handbook of Industrial Chemistry – Organ Extracurricular readings	ic Chemicals
The learning outcomes (for the field of study and specialization)	Knowledge
	 Knowledge 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 relationships and dependencies between the economy and the functioning of the chemical industry
	Skills
	Skills 1. uses chemical terminology to the extent necessary to present (in written and oral form) the content of the subject
	2. predicts the course of selected industrial chemical reactions and the products of these transformations3. uses the basic analytical techniques used in the analysis of industrial products
	4. can indicate engineering techniques important in the chemical industry
	5. can indicate significant economic aspects of the chemical industry
	Social competence