


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
 Europejskiego Funduszu
 Społecznego

UNIA EUROPEJSKA
 EUROPEJSKI
 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Raw materials for chemical industries		13.3.0900	
Name of unit administrating study			
null			
Studies			
faculty	field of study	type	first tier studies (BA)
Faculty of Chemistry	Chemical Business	form	full-time
		specjalty	all
		specialization	all
Teaching staff			
prof. dr hab. Adam Lesner; dr inż. Joanna Nadolna; dr inż. Anna Malankowska; dr inż. Anna Gołąbiewska			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		1	
Lecture		classes - 15 h	
The realization of activities		tutorial classes – 5 h	
classroom instruction		student's own work – 10 h	
Number of hours		Total: 25 h - 1 ECTS	
Lecture: 15 hours			
The academic cycle			
2024/2025 summer semester			
Type of course		Language of instruction	
obligatory		polish	
Teaching methods		Form and method of assessment and basic criteria for evaluation or examination requirements	
multimedia-based lecture		Final evaluation	
		Graded credit	
		Assessment methods	
		Exam with open questions	
		Oral presentation	
		The basic criteria for evaluation	
		The basic criteria for evaluation or exam requirements	
		<ul style="list-style-type: none"> • Positive mark on final written exam. Examination reflect all lecture's topics. The grade scale is in accordance with UG study regulations. • oral exam – additional evelaution for students with 40-50% points obatined during written exam 	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
Basis of general chemistry			
B. Prerequisites			
Selected informations from Inoragnic and organic courses			
Aims of education			
Aims of education			
All topics from course content			
Course contents			
Course contents			

Classification of raw materials Classification and characterization of main nonrenewable fossils raw materials Classification and characterization of main renewable raw materials Raw materials for energetic and petrochemical industries Raw materials for artificial fertilizers industry Raw materials for plastics industry Raw materials for paints and enamels production Pharmaceutical industry raw materials Surowce dla przemysłu środków ochrony roślin Raw materials for construction industry Ceramic industry resources Wood and wood related resources Biomass recycling Marine resources	
Bibliography of literature Bibliography of literature Literature required to pass the course Monographic works provided by assistants leading classes Extracurricular readings	
The learning outcomes (for the field of study and specialization)	Knowledge Knowledge 1. Able to characterised the resources for chemical industry 2. Describes the purification of selected materials 3. Able to design the recycling paths for particular proces/resoureces.
	Skills Skills 1. Usage of minimal chemical terminology to present the lecture content in oral and written form. 2. Ability to assess the usefulness and functioning of existing engineering and technical solutions as well as research methods in the chemical industry
	Social competence Social competence 1. Understands the need for continuous learning 2. Shows responsibility for the timely execution of scheduled tasks
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