



Projekt współfinansowany przez Unię Europejską w ramach Europejskiego Funduszu Społecznego



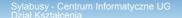
	RODOWA STRATEGIA SPÓJNOŚCI	Europejskie Społe	ego Fundusz ecznego	EUROPEJSKI * *  FUNDUSZ SPOŁECZNY **  **  **  **  **  **  **  **  **  **		
Course title				ECTS code		
Raw materials for chemical industries				13.3.0900		
Name of unit administra				13.3.0900		
	uting otday					
null Studies						
Studies						
faculty	field of study Chemical Business		first tier stud	ies (BA)		
Faculty of Chemistry	Chemical Business	form specialty	full-time			
		specialization				
To a ship or a 4 off		-				
Teaching staff						
			Malankows	ska; dr inż. Anna Gołąbiewska		
Forms of classes, the r	ealization 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						
Lecture: 15 hours			Total: 25 h - 1 ECTS			
The academic cycle						
2024/2025 summer se	mester					
Type of course	Languag	Language of instruction				
obligatory	polish					
Teaching methods			Form and method of assessment and basic criteria for eveluation or			
_	uro	examina	examination requirements			
multimedia-based lecture			Final evaluation			
			Graded credit			
	Assessr	Assessment methods				
		Exam	Exam with open questions			
		Oral p	Oral presentation			
		The bas	The basic criteria for evaluation			
		The basic	The basic criteria for evaluation or exam requirements			
		Positive r	Positive mark on final written exam. Examination reflect all lecture's topics. The grade			
				vith UG study regulations.		
				evelaution for students with 40-50% points obatined during		
Mothod of worlf des	unived learning	written exa	ım			
Method of verifying red						
Required courses and i	initiouuctory requireme	IIIS				
A. Formal requirements						
Basis of general chemisti	У					
B. Prerequisites						
· ·	m Inoragnic and organic cou	urses				
Aims of education	2 2 J 12 2.1.2. 3. gaine ook					

## Course contents Course contents

Aims of education

All topics from course content

## Raw materials for chemical industries #13.3.0900





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

Pharmaceuthical 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

adam.lesner@ug.edu.pl

The learning outcomes (for the field of study and specialization)	Knowledge	
Specialization)	Knowledge	
	Able to characterised the resourses for chemical industry	
	Describes the purification of selected materials	
	3. Able to design the recylcling 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	
	Understands the need for continuous learning	
	Shows responsibility for the timely execution of scheduled tasks	
Contact		

## Raw materials for chemical industries #13.3.0900 | c2fb446da0968571ac75d8f491a51524 | Strona 2 z 2