UNIWERSYTET GDAŃSKI

Course title
Surowce w przemyśle chemicznym / Raw materials for chemical industries

ECTS code
13.3.0900

Name of unit administrating study
Faculty of Chemistry

Studies

Field of study	Type	Form	
Chemical Business	Bachelor / Engineer	Full-time studies	

Teaching staff
Prof. dr hab. Adam Lesner

Forms of classes, the realization and number of hours

A. Forms of classes, in accordance with the UG Rector's regulations
lecture

B. The realization of activities
in-class learning

C. Number of hours
15 h lecture

ECTS credits 1

classes - 15 h
tutorial classes – 5 h
student's own work – 10 h

Total: 25 h - 1 ECTS

The academic cycle
2021/22 summer semester

Type of course
obligatory

Language of instruction
Polish

Teaching methods
Lecture with multimedia support

Form and method of assessment and basic criteria for evaluation or examination requirements

A. Final evaluation, in accordance with the UG study regulations
course completion (with a grade)

B. Assessment methods
Exam with open questions
Oral presentation

C. The basic criteria for evaluation or exam requirements
• 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

Required courses and introductory requirements
Basis of general chemistry
Selected informations from Inoragnic and organic courses

Aims of education
All topics from course content

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
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

A. Literature required to pass the course

Monographic works provided by assistants leading classes

B. Extracurricular readings

Knowledge

1. Able to characterised the resourses for chemical industry
2. Describes the purification of selected materials
3. Able to design the recylcling paths for particular proces/resoureces.

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

1. Understands the need for continuous learning
2. Shows responsibility for the timely execution of scheduled tasks