


KAPITAŁ LUDZKI
 NARODOWA STRATEGIA SPÓJNOŚCI

 Projekt współfinansowany przez
 Unię Europejską w ramach
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 Społecznego

UNIA EUROPEJSKA
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 FUNDUSZ SPOŁECZNY


Course title		ECTS code	
Environmental aspects in chemical enterprise		13.3.0721	
Name of unit administrating study			
null			
Studies			
faculty	field of study	type	all
Faculty of Chemistry	Chemical Business	form	all
		specialty	all
		specialization	all
Teaching staff			
prof. dr hab. Ewa Siedlecka; mgr Anita Romanowska; dr Aleksandra Bielicka-Giełdoń; dr inż. Beata Bajorowicz			
Forms of classes, the realization and number of hours		ECTS credits	
Forms of classes		1	
Auditorium classes		classes - 15 h	
The realization of activities		tutorial classes – 2 h	
classroom instruction		student's own work – 8 h	
Number of hours		Total: 25 h - 1 ECTS	
Auditorium classes: 15 hours			
The academic cycle			
2022/2023 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	
- Presentations prepared by students		Final evaluation	
work in groups		Graded credit	
Discussion		Assessment methods	
- discussion		- assignment work – project or presentation	
- group work		- test with open questions	
		performance of the final work - project or presentation	
		The basic criteria for evaluation	
		. The basic criteria for evaluation or exam requirements	
		Presence in auditorium classes	
		The final grade will be issued based on the presentation presented by the student, class activity during group work and written exam	
Method of verifying required learning outcomes			
Required courses and introductory requirements			
A. Formal requirements			
none			
B. Prerequisites			
none			
Aims of education			
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The aim of education is to familiarize the student with selected environmental aspects applicable in Poland (duties, costs, voluntary commitments to the environment) in chemical enterprises with different production profiles.			

Course contents	
<p>Course contents</p> <p>Classification and characteristics of the main types of chemical industry in Poland and in Europe</p> <p>Duties towards the environment of chemical enterprises with different production profiles in the light of current legal acts. Environmental fees.</p> <p>Voluntary activities of enterprises for the environment: introduction of ISO, EMAS, responsibility and care program. Obligations related to the introduction of the REACH system.</p> <p>Examples of ecological disasters related to failures in the chemical industry (case study)</p>	
Bibliography of literature	
<p>Bibliography of literature</p> <p>Literature required to pass the course</p> <p>Monographic works provided by assistants leading classes</p> <p>Extracurricular readings</p>	
The learning outcomes (for the field of study and specialization)	Knowledge
	<p>Knowledge</p> <p>Student knows the classification of chemical industry in Poland and Europe</p> <p>Knows and correctly interprets basic legal acts regarding environmental protection in an industrial plant.</p> <p>Student lists the duties and voluntary activities of chemical plants in relation to the environment</p>
	Skills
	<p>Skills</p> <p>Student uses the chemical terminology to the extent necessary to present the content of the subject</p> <p>Student searches for necessary information in files and legal documents</p> <p>Student evaluates the risks and obligations of the company in the event of a disaster</p>
	Social competence
Contact	
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