



Subject card

Subject name and code	Industrial Safety, PG_00048547						
Field of study	Chemical Technology						
Date of commencement of studies	October 2021	Academic year of realisation of subject			2021/2022		
Education level	first-cycle studies	Subject group			Obligatory subject group in the field of study		
Mode of study	Full-time studies	Mode of delivery			at the university		
Year of study	1	Language of instruction			Polish		
Semester of study	1	ECTS credits			2.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Marek Lieder					
	Teachers	dr hab. inż. Marek Lieder					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	E-learning hours included: 0.0						
	Adresy na platformie eNauczenie: Bezpieczeństwo Techniczne - 2021/2022 - Moodle ID: 17823 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=17823						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan	Participation in consultation hours		Self-study	SUM	
	Number of study hours	30	2.0		18.0	50	
Subject objectives	<p>Student acquires competent engineering knowledge in the field of basic process and toxicological safety in industry.</p> <p>Lectures will focus on preventing fires, explosions and accidental chemical releases in chemical process facilities or other facilities dealing with hazardous materials</p> <p>Knowledge will be passed on an European Union regulations concerning safety, in particular REACH, ECHA and CLP.</p> <p>The structure and aims of the National Firefighting and Rescue System will be also presented.</p>						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	K6_W05	Student has knowledge of work safety in the chemical industry.			[SW1] Assessment of factual knowledge		
	K6_K02	Student understands the effects of chemistry, including the impact on the environment is aware of responsibility for decisions			[SK4] Assessment of communication skills, including language correctness		
	K6_K03	Student is aware of responsibility for your own work and for common tasks			[SK5] Assessment of ability to solve problems that arise in practice		
Subject contents	1. Hazardous substances and risk of their uses. Real sources of threat. 2. Requirements for transportation of chemicals. 3. Polish law concerning serious chemical malfunctions 4. Local system of rescue and emergency planning 5. Society and chemical threats 6. Case study						
Prerequisites and co-requisites	No requirements						

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		Test and oral exam	50.0%
Recommended reading	Basic literature	1. Jasińska Ł., Groset R. "Edukacja społeczeństwa w zakresie zagrożeń chemicznych". Wydawca: Fundacja Edukacja i Technika Ratownictwa, Warszawa 2006. 2. Konieczny J., Ranecki J. "Ratownictwo chemiczno - medyczne". Oficyna wydawnicza Garmond, Poznań - Warszawa 2007. 3. Schroeder M., Ranecki J. "Uszczelnienia w ratownictwie". Wydawnictwo: firex, Warszawa 1998. 4. Ustawy i rozporządzenia podane przez wykładowcę	
	Supplementary literature	No requirements	
	eResources addresses	Bezpieczeństwo Techniczne - 2021/2022 - Moodle ID: 17823 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=17823	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		