

Subject card

Subject name and code	Safety at work, PG_00060839								
Field of study	Chemical Technology								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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	Department of Polymers Technology -> Faculty of Chemistry								
Name and surname	Subject supervisor		prof. dr hab. inż. Janusz Datta						
of lecturer (lecturers)	Teachers								
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	15.0	0.0	15.0	0.0		30		
	E-learning hours inclu							-	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation i consultation h		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Familiarizing students with the issues in the field of work safety.								
Learning outcomes	Course out	Subject outcome			Method of verification				
	[K6_K03] is aware of the responsibility for his/her own work and is ready to follow the rules of teamwork and take responsibility for the tasks performed jointly		the use of the principles of safe work in laboratories and technological halls.			[SK5] Assessment of ability to solve problems that arise in practice			
	[K6_W12] knows the chemical nomenclature in Polish and specialized terms related to chemical technology		The student uses knowledge of specialized terms related to chemical technology, including designations related to hazards in the workplace.			[SW1] Assessment of factual knowledge			
	[K6_U12] applies the principles of health and safety at work					[SU1] Assessment of task fulfilment			
Subject contents	Issues within the subject: 1. National and international regulations on occupational safety and health. 2. Hazards in the workplace, including during work in laboratories. 3. Personal protective equipment, protective clothing, work clothes. 4. Material safety data sheets for chemicals. Signs related to hazards (pictograms). 5. Effects of hazards, including ways to minimize and prevent hazards in the workplace. 6. Safety procedures prevailing in the workplace (including process hall). 7. General principles of working with apparatus of the chemical industry. 8. Principles of safe work with various machines of the chemical industry. 9. Hazards in the workplace, including during process hall work - causes, consequences and methods of prevention. 10. Measurement of harmful factors at workplaces. 11. Selected examples of accidents at the workplace in the chemical industry/laboratory. Solving situational/workstation problems. 12. Monitoring of safe work. 13. Organization of work in a team hierarchy of competence in the field of work safety. 14. Management of safety at work and risks. 15. Assessment methods and calculation of occupational risk assessment. Accidents in the workplace first aid.								

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Prerequisites and co-requisites	Passed health and safety training for students beginning their education at PG						
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	test	50.0%	50.0%				
	laboratory completion	50.0%	50.0%				
Recommended reading	Basic literature	1. ACT of June 26, 1974 Labor Code, Journal of Laws. 1974 No. 24 item 141					
		Marek Wasielewski, Wiktor Nikołajewicz Dawydow, Bezpieczeństwo w pracowni chemicznej, Wydawnictwa Naukowo-Techniczne, Warszawa 2008					
		Rączkowski B., BHP w praktyce, oddk Gdańsk, 2022 i wydania wcześniejsze					
			Firkowski A., Religa P., "Bezpieczeństwo pracy z substancjami i eparatami chemicznymi, Uniwersytet Technologiczno-Humanistyczny Radomiu, Radom 2009				
		5. Collective work/Praca zbiorowa, BHP w firmie Bezpieczeństwo i higiena pracy od A do Z, Wydawnictwo: Wiedza i Praktyka, 2022					
	Supplementary literature	Regulation of the Council of M service of occupational safety an	linisters of September 2, 1997 on the d health.				
		2. Skowroń J., Zapór L., Pośniak M., Szewczyńska M., Lisowski A., Czynniki chemiczne w środowisku pracy, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2006					
		3. Michalik J. S., Poważne awarie chemiczne, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2007					
		4. Michalik J. S., Zapobieganie poważnym awariom przemysłowym, Centralny Instytut Ochrony pracy, Państwowy Instytut Badawczy, 2005					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Theoretical issues: regulations for safe work. Knowledge of the designations of basic hazards in chemical laboratories, material laboratories or process halls. Legal regulations on safe work. Rules of conduct in case of danger (including fire, chemical contamination, biological contamination) in the workplace.						
	Laboratory issues: the ability to analyze the data sheet of chemical substances (toxicity of chemicals, determination of toxicity); design of procedures to be followed in case of a) fire, b) failure of water and sewage system, c) biological contamination, d) electrical system; measurement of noise in technological halls, measurement of concentrations of selected harmful factors. Calculation of occupational risk - determination of consequences and probability of danger.						
Work placement	Not applicable						

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