

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Safety at work, PG_00060839								
Field of study	Chemical Technology								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024			
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	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 Polyme	er Technology	-> Faculty of Chemistry						
Name and surname	Subject supervisor		prof. dr hab. inż. Janusz Datta						
of lecturer (lecturers)	Teachers		prof. dr hab. inż. Janusz Datta						
			dr hab. inż. Błażej Kudłak						
			prof. dr hab. inż. Żaneta Polkowska						
			dr inż. Marcin Włoch						
			dr inż. Izabela Frąckiewicz						
	dr inż. Paulina Kosmela								
			dr inž. Ewa Głowińska						
	Paulina Wiśniewska								
			dr hab. inż. Ju	iż. Justyna Łuczak					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours			15.0	0.0		0.0	30	
	E-learning hours inclu	ided: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes includ plan			Participation in consultation hours		Self-study		SUM	
	Number of study 30 hours			2.0		18.0		50	
Subject objectives	Familiarizing students with the issues in the field of work safety.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_U12] applies the principles of health and safety at work		The student uses the principles of safe work in laboratories and process halls and is able to assess chemical hazards and apply the principles of occupational health and safety to them in a specific case			[SU1] Assessment of task fulfilment			
	[K6_W12] knows the nomenclature in Polis specialized terms reli- chemical technology	sh and	specialized te chemical tech	nology, includi related to haza	ng	[SW1] Assessment of factual knowledge		of factual	
	[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 student responsibly carries out the assigned tasks, including the use of the principles of safe work in laboratories and technological halls.			[SK5] Assessment of ability to solve problems that arise in practice			

Subject contents	Issues within the subject:						
	 2.Hazards in the workplace, inclusion 3.Personal protective equipment 4.Material safety data sheets for 5.Effects of hazards, including w 6.Safety procedures prevailing in 7.General principles of working w 8. Principles of safe work with va 9.Hazards in the workplace, inclusion 10.Measurement of harmful factr 11. Selected examples of accidee situational/workstation problems. 12.Monitoring of safe work. 13.Organization of work in a tean 14.Management of safety at work 	nts at the workplace in the chemical in the internation of competence in the fiel k and risks. Alculation of occupational risk assess	(pictograms). s in the workplace. all). try. stry. ses, consequences and methods of industry/laboratory. Solving ld of work safety.				
Prerequisites and co-requisites	Passed health and safety training f	or students beginning their education	n at PG				
Assessment methods			Demonstration of the final surgle				
and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	laboratory completion	50.0%	50.0%				
	test	50.0%	50.0%				
Recommended reading	Basic literature	 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 preparatami chemicznymi, Uniwersytet Technologiczno-Humanistyczny w Radomiu, Radom 2009 					
	Supplementary literature	 5. Collective work/Praca zbiorowa, BHP w firmie Bezpieczeństwo i higiena pracy od A do Z, Wydawnictwo: Wiedza i Praktyka, 2022 1. Regulation of the Council of Ministers of September 2, 1997 on the service of occupational safety and 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	urces addresses Uzupełniające Adresy na platformie eNauczanie: BEZPIECZEŃSTWO PRACY - Moodle ID: 32 https://enauczanie.pg.edu.pl/moodle/course/v					
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

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