



Subject card

Subject name and code	Safety in Research, PG_00065083						
Field of study	Nanotechnology						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
Education level	first-cycle studies	Subject group			Humanistic-social subject group		
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			1.0		
Learning profile	general academic profile	Assessment form			assessment		
Conducting unit	Zakład ceramiki -> Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor		dr hab. inż. Aleksandra Mielewczyk-Gryń				
	Teachers		dr hab. inż. Aleksandra Mielewczyk-Gryń				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
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	15		0.0		0.0	15
Subject objectives	The goal of the course is to prepare students for safe laboratory work, both in practical terms and with regard to legal requirements.						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	the student correctly uses the presented concepts related to security issues			[SW1] Assessment of factual knowledge		
	[K6_K71] is conscious of the need to apply knowledge from humanistic, social, economic or legal sciences in order to function in a social environment	the student is aware of the impact of legal provisions and ethical issues on conducting research			[SK4] Assessment of communication skills, including language correctness		
	[K6_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems in a social environment	the student is able to apply knowledge of labor law and ethical principles related to work in the laboratory			[SU3] Assessment of ability to use knowledge gained from the subject		
Subject contents	<ul style="list-style-type: none">Basics of working in a laboratoryHazards in the laboratoryIntroduction to research ethicsLegal requirements regarding occupational health and safety in Poland and EuropeAccident analysis						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	final test	50.0%			100.0%		

Recommended reading	Basic literature	A. Keith Furr CRC Handbook of Laboratory Safety
	Supplementary literature	Benjamin R. Sveinbjornsson and Sveinbjorn Gizurarson Handbook for Laboratory Safety Elsevier
	eResources addresses	Adresy na platformie eNauczenie: Bezpieczeństwo w badaniach naukowych - Moodle ID: 40152 https://enauczenie.pg.edu.pl/moodle/course/view.php?id=40152
Example issues/ example questions/ tasks being completed	<ol style="list-style-type: none"> 1. Types of laboratory glassware. 2. Types of labels on chemical substances. 3. Basics of labor law in the context of laboratory safety. 4. Basics of patent law. 5. Analysis of fatal accidents in laboratories. 	
Work placement	Not applicable	

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