GDAŃSK UNIVERSITY OF TECHNOLOGY

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	Division Of Ceramics -> Institute Of Nanotechnology And Materials Engineering -> Faculty Of Applied Physics And Mathematics -> Wydziały Politechniki Gdańskiej		
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	2.0	8.0	25

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

- Basics of working in a laboratory
- Hazards in the laboratory
- Introduction to research ethics
- Legal requirements regarding occupational health and safety in Poland and Europe
- Accident 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 eNauczanie: Bezpieczeństwo w badaniach naukowych - Moodle ID: 40152 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=40152
Example issues/ example questions/ tasks being completed	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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