GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Ethics in science and technology, PG_00062744		
Field of study	Technologies for Industry 5.0		
Date of commencement of studies	October 2025	Academic year of realisation of subject	2027/2028
Education level	first-cycle studies	Subject group	Obligatory subject group in the field of study Humanistic-social subject group
Mode of study	Full-time studies	Mode of delivery	at the university
Year of study	3	Language of instruction	Polish
Semester of study	6	ECTS credits	1.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	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		

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	1.0	9.0	25

Subject objectives

The aim of the course is to provide students with fundamental knowledge of the ethical principles applicable in both scientific work and research and development.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_W71] has general knowledge in humanistic, social, economic or legal sciences	The student has knowledge of ethical issues related to their future professional and scientific work.	[SW3] Assessment of knowledge contained in written work and projects
[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 how their ethical stance can affect their professional and scientific work	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

By the end of the course, students will be able to:

- Understand key ethical principles and theories applicable to scientific research.
- Analyze ethical dilemmas and conflicts in scientific practice
- Evaluate the impact of scientific work on society and the environment.
- Apply ethical decision-making models to real-world scientific scenarios.
- Develop a personal ethical framework for their professional and academic careers.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
written essey	50.0%	100.0%

Recommended reading

Basic literature

Ethics: The Fundamentals Driver Julia Blackwell Publ, Wiley-Blackwell, John Wiley And Sons Ltd.

	Supplementary literature	The Ethics of Science An Introduction By David B. Resnik Copyright 1998
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	What is ethics, and what are its main theories? What are the ethical aspects of conducting scientific research? Does technological development always lead to social progress?	
Work placement	Not applicable	

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