



## 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 2026	Academic year of realisation of subject			2028/2029		
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	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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Aleksandra Mielewczyk-Gryń					
	Teachers						
Lesson types	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_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		
	[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		
Subject contents	Course content – lecture  By the end of the course, students will be able to: <ul style="list-style-type: none"><li>• Understand key ethical principles and theories applicable to scientific research.</li><li>• Analyze ethical dilemmas and conflicts in scientific practice</li><li>• Evaluate the impact of scientific work on society and the environment.</li><li>• Apply ethical decision-making models to real-world scientific scenarios.</li><li>• Develop a personal ethical framework for their professional and academic careers.</li></ul>						
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 <a href="#">David B. Resnik Copyright 1998</a>
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>What is ethics, and what are its main theories?</p> <p>What are the ethical aspects of conducting scientific research?</p> <p>Does technological development always lead to social progress?</p>	
Practical activities within the subject	Not applicable	

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