

## Subject card

Subject name and code	Ethics in Science and Engineering , PG_00056432								
Field of study	Technical Physics	Technical Physics							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2025/	2025/2026		
Education level	first-cycle studies		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			3.0			
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					hematics ->			
Name and surname	Subject supervisor		dr inż. Marek Augustyniak						
of lecturer (lecturers)	Teachers		dr inż. Marek Augustyniak						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM	
	Number of study hours	30.0	0.0	0.0	.0 0.0		0.0	30	
	E-learning hours inclu			i				1	
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		8.0		37.0		75	
Subject objectives	The lectures aim at guiding the Students through the fascinating realms of work ethics, either from the point of view of an engineer, or from the experience of a lab resercher. To begin with, a general introduction to the ethical issues is proposed, referring to topics already familiar to the Participants, such as school life dilemmas.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W71] has general knowledge in humanistic, social, economic or legal sciences		The Student gathers and puts in order the history of ethics, as well as the biographies and choices of outstanding scientists and engineers.			[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 understands the significance of fundamental questions, concerning the limits of freedom, priciples of "playing fair" in the workplace and private life, and the balance between money and other values.			[SK1] Assessment of group work skills			
	[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 acquires experience on solving realistic case-studies, at least in terms of identification of criteria allowing to prefer one solution over another. He/she learns to justify the standpoint and to understand other points of view and attitudes, during workshop discussions.			[SU3] Assessment of ability to use knowledge gained from the subject			
		olems in a	solution over a learns to justif to understand and attitudes,	another. He/sh fy the standpoin I other points of	e e nt and f view				
Subject contents		our areas. Tear encouraged to be presented,	solution over a learns to justifut to understand and attitudes, discussions.  In building and draw on their followed by food	another. He/sh fy the standpoil I other points of during worksh motivation mee experience gat cus on dilemma	e e e e e e e e e e e e e e e e e e e	t schoo ployees	ld. Then a co s and employ	ncise history of	
Subject contents  Prerequisites and co-requisites	I plan to go through for the Students shall be ethics is supposed to	our areas. Tear encouraged to be presented,	solution over a learns to justifut to understand and attitudes, discussions.  In building and draw on their followed by food	another. He/sh fy the standpoil I other points of during worksh motivation mee experience gat cus on dilemma	e e e e e e e e e e e e e e e e e e e	t schoo ployees	ld. Then a co s and employ	ncise history of	
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Recommended reading	Basic literature	Alasdair macintyre, A short history of ethics				
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		Francis Fukuyama, The Last Man				
		Tallion Fallayama, The Last man				
		Ryszard Legutko, Treaty on Freedom				
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	Supplementary literature	Luc Ferry, La plus belle histoire de la Philosophie				
		C.S. Lewis, A mind awake				
		C.S. Lewis, A minu awake				
		Jan Hartmann, Ethics!				
	eResources addresses					
English to accord		uident compace", eur evperiences from cobeel				
Example issues/ example questions/	integration meeting. student and st	udent compass" - our experiences from school.				
tasks being completed						
tacke being completed	A world of values and choices: anal	ogies between technology and everyday life.				
	The world of values and sholdes, and	ogico between teamology and everyday inc.				
	Branches of ethics - a historical outline.  A more detailed discussion of selected topics (e.g. freedom, progress, human nature).					
	Planning of professional life: engineer vs scientist.					
	Formation Engineers and Businessman; real stories					
	Famous Engineers and Businessmen: real stories					
	Ethics in the company - selected dilemmas.					
	A multi-scale approach - individual choices, the operation of companies and institutions, global phenomena.					
	Ethics in scientific work: information reliability, social responsibility.					
Work placement	Not applicable					
Work placement	Tiot applicable					

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