



Subject card

Subject name and code	Ethics in Science and Engineering , PG_00056432						
Field of study	Technical Physics						
Date of commencement of studies	October 2024	Academic year of realisation of subject			2024/2025		
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	Instytut Nanotechnologii i Inżynierii Materiałowej -> Faculty of Applied Physics and Mathematics						
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Marek Augustyniak					
	Teachers	dr inż. Marek Augustyniak					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	30.0	0.0	0.0	0.0	0.0	30
	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	30	0.0		0.0	30	
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 researcher. 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_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		
	[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, principles of "playing fair" in the workplace and private life, and the balance between money and other values.			[SK1] Assessment of group work skills		
	[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		
Subject contents	I plan to go through four areas. Team building and motivation meetings shall be organised first, during which the Students shall be encouraged to draw on their experience gathered at school. Then a concise history of ethics is supposed to be presented, followed by focus on dilemmas of employees and employers at technical companies. The ethics of scientific researches are planned to close the curriculum.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold			Percentage of the final grade		
	Activity during lectures	70.0%			34.0%		
	Homeworks	70.0%			33.0%		
	Exam	70.0%			33.0%		

Recommended reading	Basic literature	Alasdair macintyre, A short history of ethics Francis Fukuyama, The Last Man Ryszard Legutko, Treaty on Freedom
	Supplementary literature	Luc Ferry, La plus belle histoire de la Philosophie C.S. Lewis, A mind awake Jan Hartmann, Ethics!
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed	<p>Integration meeting: "student and student compass" - our experiences from school.</p> <p>A world of values and choices: analogies between technology and everyday life.</p> <p>Branches of ethics - a historical outline.</p> <p>A more detailed discussion of selected topics (e.g. freedom, progress, human nature).</p> <p>Planning of professional life: engineer vs scientist.</p> <p>Famous Engineers and Businessmen: real stories</p> <p>Ethics in the company - selected dilemmas.</p> <p>A multi-scale approach - individual choices, the operation of companies and institutions, global phenomena.</p> <p>Ethics in scientific work: information reliability, social responsibility.</p>	
Work placement	Not applicable	

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