GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Ethics in Science and Engineering , PG_00056432		
Field of study	Technical Physics		
Date of commencement of studies	October 2023	Academic year of realisation of subject	2023/2024
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	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 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

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 schoold. 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 researchs are planned to close the curriculum.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Exam	70.0%	33.0%
Homeworks	70.0%	33.0%
Activity during lectures	70.0%	34.0%

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	Integration meeting: "student and student compass" - our experiences from school. A world of values and choices: analogies between technology and everyday life. 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. 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	

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