GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Ecological, economic and ethical issues for today, PG_00066241						
Field of study	Chemistry						
Date of commencement of studies	February 2025		Academic year of realisation of subject	2024/2025			
Education level	second-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	Department of Chemistry and Technology of Functional Materials -> Faculty of Chemistry						
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. Anna Schmidt					
	Teachers	dr hab. inż. Anna Schmidt prof. dr hab. Anna Lisowska-Oleksiak					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	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		5.0	40.0		75
Subject objectives	The purpose of the course is to point out the essence of the balance between ecology and economics in respecting ethical standards when modifying and implementing new technologies.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K7_W71] has general knowledge in humanistic, social, economic or legal sciences, including their fundamentals and applications	The student has a general knowledge of today's problems arising from the design and implementation of ecological and economic processes in an ethical manner.	[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation [SW3] Assessment of knowledge contained in written work and projects
[K7_U71] is able to apply knowledge from humanistic, social, economic or legal sciences in order to solve problems	The student applies the acquired knowledge when solving technological (economic) problems concerning the environment and following ethical principles.	[SU1] Assessment of task fulfilment [SU2] Assessment of ability to analyse information [SU3] Assessment of ability to use knowledge gained from the subject [SU4] Assessment of ability to use methods and tools [SU5] Assessment of ability to present the results of task
[K7_K03] understands non-technical aspects and effects of the graduate's activities, including the impact of the chemical industry on the environment	The student understands the importance of the impact of economics on the environment and ethical standards.	[SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice
[K7_K04] is aware of the responsibility for decisions made, observing and developing the principles of professional ethics and working to ensure compliance with these principles	The student knows the principles of professional ethics. The student takes responsibility for his/her own and group decisions.	[SK1] Assessment of group work skills [SK2] Assessment of progress of work [SK3] Assessment of ability to organize work [SK4] Assessment of communication skills, including language correctness [SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Basic concepts and subject of economics. Current approaches to economy and economics. Ecological economics. Revision of economic theory in light of the concept of sustainable economic development.Ecological problems as social problems. Basic concepts and object of ethics. Ethics and ecology. Requirements of ethics in the face of modern threats and climate change. Analysis of current problems linking ecology with economics and ethics. Projects based on the principles of sustainable development.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
	60.0%	50.0%
	60.0%	50.0%

Recommended reading

Basic literature	1. Ethics and Economics edited by Dorota Probudzka, 1st Edition: SILVA RERUM Scientific Publishing House Poznan 2022 2. Ronald Zarzycki, Ethics of everyday life or can one be good simply? A socio-political analysis of morality as a commodity, weapon and distinction; Publisher: Collegium Civitas Press, Warsaw 2021. 3. Fundamentals of Economics, Scientific Editors: Roman Milewski, Eugeniusz Kwiatkowski, PWN Scientific Publishers 2018.
Supplementary literature	The concept of sustainable development in economics, finance and management, scientific editor Ryszard Kaminski, Polish Economic Society Poznań Branch, Poznań 2023
eResources addresses	Adresy na platformie eNauczanie:

Example issues/ example questions/ tasks being completed

1. Does electric car production meet the principles of sustainability in the environmental, economic and ethical sense?
2. Is it possible to produce a shirt profitably without violating environmental and ethical standards?
3. What conditions must energy storage devices meet to make their production environmentally and socially acceptable?

Work placement

Not applicable

Document generated electronically. Does not require a seal or signature.