GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Philosophy of Science, PG_00049197		
Field of study	Chemistry		
Date of commencement of studies	October 2022	Academic year of realisation of subject	2022/2023
Education level	first-cycle studies	Subject group	Optional 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	2	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Social Sciences and Philosophy -> Faculty of Management and Economics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Przemysław Parszutowicz	
	Teachers	dr hab. Przemysław Parszutowicz	

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	2.0	18.0	50

Subject objectives

Getting acquainted with the basic notions of philosophy. Course provides a basic introduction to the philosophical problems, focusing especially on science, philosophy of technology and philosophy of nature.

Learning outcomes

Course outcome	Subject outcome	Method of verification
[K6_K01] understands the need for lifelong learning, can inspire and organize the process of teaching other people	Student is able to evaluate the influence of the particular worldview on the reality and is able to discuss the ethical and anthropological implications of acceptance of certain epistemological view of reality.	[SK4] Assessment of communication skills, including language correctness
[K6_K05] can identify the dilemmas (also ethical) associated with the practising of chemical engineer profession	Student is fully aware of the axiological and metatheoretical conditioning of knowledge, is able to point at the particular rootedeness of the given interpretation of the world.	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

The concept of method in philosophy; Basic problems of philosophy and the theory of cognition; Humanities and natural sciences; Positive method and its assumptions; Transcendental method and its assumptions (the problem of synthetic a priori judgements); The basis of the critical method in the philosophy of science; The specificity of scientific concepts and the principles of their construction (sciences) Specifics of scientific concepts and the principles of their construction (humanities); The problem of model, symbol and scientific experiment; Selected concepts of the philosophy of science (Popper's falsificationism, Fleck's research collectives, Kuhn's theory of scientific revolutions, Feyerabend's methodological anarchism); The problem of the Anthropocene; Science and pseudoscience - or how conspiracy theories are created.

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Final exam	50.0%	100.0%

Recommended reading	Basic literature	• A. Chalmers, *Czym jest to, co zwiemy nauką*, Wrocław 1997. • M. Grabowski, *Elementy filozofii nauki*, Toruń 2000. • *Filozofia nauki i metodologia badań naukowych, Wybór tekstów źródłowych*, red. M. Łojewska, Warszawa 1982. • A. Miś, *Filozofia współczesna: główne nurty*, Warszawa 2006. • Roman Murawski, *Filozofia matematyki: zarys dziejów*, Warszawa 1995.
	Supplementary literature	• W. Tatarkiewicz, *Historia filozofii*, t. 3, Warszawa 2005. • *Przewodnik po literaturze filozoficznej XX wieku*, t. 15, red. B. Skarga.
	eResources addresses	
Example issues/ example questions/ tasks being completed	Describe the main divisions in philosophy; Present the main principles of the positivist view of science; Discuss the main conceptions of the general methodology of science; What is methodological anarchism; Elucidate the concepts of conventionalism and falsificationism.	
Work placement	Not applicable	