GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	The history of philosophy with elements of mathematics, PG_00021029		
Field of study	Mathematics		
Date of commencement of studies	October 2026	Academic year of realisation of subject	2026/2027
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	2	ECTS credits	2.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department of Philosophy and Science Methodology -> Faculty of Management and Economics -> Faculties of Gdańsk University of Technology		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Przemysław Parszutowicz	
	Teachers		

Lesson types

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	5.0	15.0	50

Subject objectives

Familiarizing with the basic concepts of history of philosophy, philosophy of science, philosophy of nature and history of mathematics.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_K01	Student is able to point at the metatheoretical conditioning of science, is fully aware of axiological, ontological and epistemologigal implications of a given world-view.	[SK5] Assessment of ability to solve problems that arise in practice
K6_W01	Student learns about the historical context of the application of philosophy to the theoretical problems of natural sciences.	[SW1] Assessment of factual knowledge
K6_K04	Student is able to point at the importance of given mathematical formulae within the context of the general history and evolution of science.	[SK2] Assessment of progress of work
K6_K03	Student learns the basics of philosophy, history of science and history of mathematics, is able to take a critical stance toward certain conceptions, is aware of ethical entanglement of science and technology and can embed them in the wider socio-cultural contexts.	[SK5] Assessment of ability to solve problems that arise in practice

Subject contents

Course content – lecture
The beginnings of natural sciences in ancient Greece; Metaphysics as pseudoscience; The development of natural sciences and mathematics during the Renaissance; The specificity, dominance, and the problem of the positivist image of the world in contemporary science; Positivism vs. anti-positivism; Foundations of critical philosophy and the problem of conceptual construction; How is pure mathematics possible? The problem of truth and relativity in science; 20th-century philosophy of science: scientism, Popper, Kuhn, Lakatos, Feyerabend; science and pseudoscience.

Prerequisites and co-requisites

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Participation in the lecture	80.0%	10.0%
	Final exam	50.0%	90.0%
Recommended reading	Basic literature	1. Roman Murawski, Filozofia matematyki. Antologia tekstów klasycznych, Poznań: Wydawnictwo Naukowe UAM, 2003; 2. Wojciech Sady, *Spór o racjonalność naukową od Poincarego do Laudana*, Wrocław: Fundacja Na Rzecz Nauki Polskiej, 2000. 3. Władysław Tatarkiewicz, *Historia filozofii*, trzy tomy, Warszawa: PWN: 2007.	
	Supplementary literature	Roman Murawski, *Filozofia matematyki: zarys dziejów,* Poznań: Wydawnictwo Naukowe UAM, 2008.	
	eResources addresses		
Example issues/ example questions/ tasks being completed	List and briefly describe the main periods in the development of philosophy; What is falsificationism and who is the author of this demarcation method; Discuss the influence of Descartes on the development of mathematics.		
Practical activites within the subject	Not applicable		

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