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 2025		Academic year of realisation of subject		2025/2026		
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 -> Wydziały Politechniki Gdańskiej						
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						
	Adresy na platformie eNauczanie:						

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_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
	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_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_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

Subject contents	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
	Final exam	50.0%	90.0%
	Participation in the lecture	80.0%	10.0%

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.
Work placement	Not applicable

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