

## Subject card

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Subject name and code	The history of philosophy with elements of mathematics, PG_00021029								
Field of study	Mathematics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2024/2025			
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 Social Sciences and		Philosophy -> Faculty of Managemer			nt and Economics			
Name and surname	Subject supervisor		dr hab. Przemysław Parszutowicz						
of lecturer (lecturers)	Teachers								
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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 classes include plan				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_W01		Student learns about the historical context of the application of mathematics to the theoretical problems of natural sciences as well as practical problems of technology and engineering.		[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			
	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			

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Subject contents	1. Basic divisions within the field of philosophy and its fundamental concepts; 2. History of ancient philosophy - pre-socratic period. Mathematics in ancient Greece; 3. Philosophical systems of Plato and Aristotle. Aristotle's physics; 4. Philosophy of middle ages, philosophy of renessaince; 5. Galileo and Bacon. mathematization of science, birth of experiment; 6. Metaphysical systems of XVIIth century: Descartes, Pascal, Spinosa, Leibniz; 7. The birth of classical physics: Newton, atomism, mechanicism. The origins of mathematical analysis; 8. Kant's transcendentalism; 9. History of mathematics and science in XIXth century. Positivism. 10. Philosophical meaning of the general theory of relativity; 11. Three main schools of philosophy of mathematics in XXth century: logicism, formalism, intuitionism; 12. General methodology of science: from Poincare to Feyerabend; 13. Mathematics and chaos theory; 14. Contemporary investigations within the field of the philosophy of mathematics; 15. Introduction to the sociology of knowledge and social studies of science.						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Participation in the lecture	80.0%	20.0%				
	Final exam	50.0%	80.0%				
Recommended reading	Basic literature	asic 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, <i>Filozofia matematyki: zarys dziejów,</i> Poznań: Wydawnictwo Naukowe UAM, 2008.					
	eResources addresses						
Example issues/ example questions/ tasks being completed	Enumerate and brifely discuss the main periods in the history ogf philosophy; What are the three main schools of philosopohy of mathematics in XXth century; Describe briefly what is conventionalism in the general methodology of science; Describe the world-view of classical physics.						
Work placement	Not applicable						

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