



Subject card

Subject name and code	Philosophy of Science, PG_00049197						
Field of study	Chemistry						
Date of commencement of studies	October 2023	Academic year of realisation of subject			2023/2024		
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_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 rootedness of the given interpretation of the world.			[SK5] Assessment of ability to solve problems that arise in practice		
	[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		
Subject contents	<p>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.</p>						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
		Final exam	50.0%
Recommended reading	Basic literature	<ul style="list-style-type: none"> • A. Chalmers, <i>Czym jest to, co zwiemy nauką</i>, Wrocław 1997. • M. Grabowski, <i>Elementy filozofii nauki</i>, Toruń 2000. • <i>Filozofia nauki i metodologia badań naukowych, Wybór tekstów źródłowych</i>, red. M. Łojewska, Warszawa 1982. • A. Miś, <i>Filozofia współczesna: główne nurty</i>, Warszawa 2006. • Roman Murawski, <i>Filozofia matematyki: zarys dziejów</i>, Warszawa 1995. 	
	Supplementary literature	<ul style="list-style-type: none"> • W. Tatarkiewicz, <i>Historia filozofii</i>, t. 3, Warszawa 2005. • <i>Przewodnik po literaturze filozoficznej XX wieku</i>, t. 15, red. B. Skarga. 	
	eResources addresses	Adresy na platformie eNauczanie: Filozofia Nauki - chemia 2024 - Moodle ID: 36796 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=36796	
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		