

Subject card

Subject name and code	Philosophy of nature, PG_00073443						
Field of study	Geology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	Bachelor's studies		Subject group		Optional 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	1		ECTS credits		1.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Tomasz Kąkol				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0	0.0	15
	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	15		0.0		15.0	30
Subject objectives	The aim of the course is to present selected major issues in the philosophy of physics						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[GEOLL3_W02] knows and understands the terminology appropriate in science and natural sciences		has basic knowledge of the place and role of philosophy of nature in relation to the sciences, as well as of the subject matter and methodological specificity of philosophy of nature; knows basic philosophical-natural terminology in Polish; knows basic research methods and argumentation strategies relevant to philosophy of nature.		[SW4] test/exam - oral or written		
	[GEOLL3_U02] has the skill of analytical and synthetic way of reasoning leading to correct inference based on the results obtained or the facts presented		knows the scope of his/her knowledge and skills, understands the need for continuous education and professional development; correctly applies the learned terminology; analyzes arguments in the field of philosophy of nature.		[SU4] test/exam - oral or written		
Subject contents							
	1 The ontology of time - from Aristotle to today 2. special and general relativity						

Prerequisites and co-requisites	Knowledge - at the level of a good high school - of basic scientific achievements in the natural sciences, preferably in physics		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test/exam - oral or written	51.0%	100.0%
Recommended reading	Basic literature	Obligatory literature:M. Heller, M. Lubański, Sz. Ślaga, "Zagadnienia filozoficzne współczesnej nauki. Wstęp do filozofii przyrody", Warsaw 1997 [ONLY the "middle" part, written by Heller, without quantum mechanics].T. Kąkol, "Ontologia czasu od Arystotelesa do McTaggarta," https://www.academia.edu/85849729/Ontologia_czasu_od_Arystotelesa_do_McTaggarta	
	Supplementary literature	Supplementary literature:S. Hawking, "A Brief History of Time" (any edition)Z. Augustynek, "Past, Present, Future" (ibid.)	
	eResources addresses		
Example issues/ example questions/ tasks being completed	The ontology of time - from Aristotle to today		
Work placement	Not applicable		

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