

**Subject card**

<b>Subject name and code</b>	Philosophy of Science, PG_00193480						
<b>Field of study</b>	Quantum Information Technology						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>			2027/2028		
<b>Education level</b>	Master's studies	<b>Subject group</b>			Obligatory subject group in the field of study Humanistic-social subject group		
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>			at the university		
<b>Year of study</b>	2	<b>Language of instruction</b>			English		
<b>Semester of study</b>	3	<b>ECTS credits</b>			2.0		
<b>Learning profile</b>	academic	<b>Assessment form</b>			credit		
<b>Conducting unit</b>							
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Patryk Dziurosz-Serafinowicz				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	0.0	0.0	0.0	0.0	15
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	15		0.0		35.0	50
<b>Subject objectives</b>	This course introduces students to the central problems discussed within philosophy of science. On the whole, the course gives students a robust understanding of how science works. Additionally, we will discuss some problems pertaining to philosophy of probability.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
	[QITL3_W04] knows and understands the basic economic, legal, ethical, and other conditions of various types of professional activities related to quantum information technologies, including concepts and principles concerning the protection of industrial property and copyright law.						
	[QITL3_K04] is ready to responsibly fulfill the role of a quantum technologies specialist, taking into account the changing needs of society, including developing the professional achievements, maintaining the professional ethos, and adhering to and developing the principles of professional ethics and working to ensure compliance with these principles						
	[QITL3_K01] is ready to critically evaluate their knowledge and the content they receive, including in the field of quantum physics and technologies						

Subject contents	1. Induction and inductivism 2. Falsificationism 3. Kuhns Scientific Revolutions 4. Realism and Anti-Realism in Science 5. Philosophy of Probability 6. Bayesian Confirmation Theory 7. Observation Selection Effects		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	exam	50.0%	100.0%
Recommended reading	Basic literature	J. Ladyman. Understanding Philosophy of Science. Routledge, 2002. (selected chapters) M. Strevens. The Knowledge Machine. How Irrationality Created Modern Science. Liveright, 2020. (selected chapters) I. Hacking. An Introduction to Probability and Inductive Logic. CUP, 2001. (selected chapters) P. Godfrey-Smith. Theory and Reality. The University of Chicago Press, 2003. (selected chapters) E. Sober. Evidence and Evolution. The Logic Behind the Science. CUP, 2008. (selected chapters) A. F. Chalmers. What Is This Thing Called Science. Hackett, 1976. (selected chapters) Hájek, A., Hitchcock C. (editors), The Oxford Handbook of Probability and Philosophy, Oxford: Oxford University Press, 2016. (selected chapters)	
	Supplementary literature	-	
	eResources addresses		
Example issues/ example questions/ tasks being completed	-		
Work placement	Not applicable		

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