University of Gdańsk

Subject card

Subject name and code	Philosophy of Science, PG_00158058						
Field of study	Quantum Information Technology						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2026/2027		
Education level	Master's studies		Subject group		Obligatory subject group in the field of study Humanistic-social subject group		
Mode of study	full-time studies		Mode of delivery		at the university		
Year of study	2		Language of instruction		English		
Semester of study	3		ECTS credits		2.0		
Learning profile	academic		Assessment form		credit		
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr Daniel Jockwich				
	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	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.						

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<tr><td>Learning outcomes</td><td>
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<tr><th>Course outcome</th><th>Subject outcome</th><th>Method of verification</th></tr>
<tr><td>[QITL3_K01] knows the limitations of his/hers knowledge and skills; can formulate questions precisely; understands the need for further education of oneself and other people</td><td>Students identify precisely the main concepts and problems of contemporary philosophy of science.</td><td>[SK4] test/exam - oral or written</td></tr>
<tr><td>[QITL3_K04] understands and appreciates the importance of intellectual honesty in one's own and other people's actions; is aware of ethical problems in the context of research integrity</td><td>Students gain knowledge about selected ethical problems of contemporary science.</td><td>[SK4] test/exam - oral or written</td></tr>
<tr><td>[QITL3_W01] has extended knowledge in the field of general physics and advanced knowledge in the area of quantum information theory; knows the history of the development of quantum information theory and its importance for the progress of science, knowledge of the world and social development</td><td>Students gain knowledge about some advanced problems within philosophy of science.</td><td>[SW4] test/exam - oral or written</td></tr>
<tr><td>[QITL3_U10] can popularize science within quantum information theory or related areas of physics</td><td>Students know how to popularise some problems within philosophy of science.</td><td>[SU4] test/exam - oral or written</td></tr>
<tr><td>[QITL3_K08] is able to formulate competent opinions on professional issues and opinions on certain issues that concern general audience</td><td>Students know how to address scientific problems to public opinion.</td><td>[SK4] test/exam - oral or written</td></tr>
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<tr><td>Subject contents</td><td>1. Induction and inductivism
2. Falsificationism
3. Kuhns Scientific Revolutions
4. Realism and Anti-Realism in Science</td></tr>
<tr><td>Prerequisites and co-requisites</td><td></td></tr>
<tr><td>Assessment methods and criteria</td><td>
<table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>presentation</td><td>51.0%</td><td>100.0%</td></tr>
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<tr><td>Recommended reading</td><td>
<table>
<tr><td>Basic literature</td><td>J. Ladyman. Understanding Philosophy of Science. Routledge, 2002. (selected chapters)
P. Godfrey-Smith. Theory and Reality. The University of Chicago Press, 2003. (selected chapters)</td></tr>
<tr><td>Supplementary literature</td><td>-</td></tr>
<tr><td>eResources addresses</td><td></td></tr>
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<tr><td>Example issues/ example questions/ tasks being completed</td><td>-</td></tr>
<tr><td>Work placement</td><td>Not applicable</td></tr>
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