University of Gdańsk

Subject card

Subject name and code	Master Thesis and MA exam, PG_00165985						
Field of study	Quantum Information Technology						
Date of commencement of studies	October 2024		Academic year of realisation of subject	2025/2026			
Education level	Master's studies		Subject group	Obligatory subject group in the field of study			
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	2		Language of instruction	English			
Semester of study	4		ECTS credits	5.0			
Learning profile	academic		Assessment form	exam			
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Paweł Mazurek				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	0.0	0
	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	0		0.0		0.0	0
Subject objectives	Master Thesis: two referees write reviews of the master thesis. If both reviews are positive, the student is admitted to the Final Exam. Final Exam: the student answers 3 questions from the programme of the studies.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
[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	Student becomes aware about ways in which their project management, research and writting skills can be improved	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work
[QITL3_U04] can find necessary information in professional literature, both in databases and other sources; is able to reproduce the line of reasoning or the course of an experiment described in the literature, taking into account the assumptions and approximations made	Student can perform effective literature search in the topic of the master project and cites the relevant publications.	[SU3] text preparation/written work
[QITL3_K05] understands the need to popularize knowledge in the field of physics, including the latest scientific and technological achievements	Student understands the need to popularise and implement results of the master project.	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work
[QITL3_K08] is able to formulate competent opinions on professional issues and opinions on certain issues that concern general audience	Student can pinpoint to ways in which the master project connects to issues of public interest.	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work
[QITL3_K06] is aware of the risks of obtaining information from unverified sources, including those from the Internet	Student can verify reliability of the research cited in the master thesis.	[SK3] text preparation/written work
[QITL3_K02] is aware of the decisive role of experiment in the verification of physical theories; is aware of the existence of the scientific method in acquiring knowledge	Student is aware about possible experimental or numerical implementations of his master project.	[SK3] text preparation/written work
[QITL3_U12] can use a selected foreign language to the extent that allows for independent supplementation of education and communication with specialists in the same or related specialization	Student has profficiency in English allowing for clarity in his master thesis and answers at the Final Exam.	[SU3] text preparation/written work
[QITL3_U11] is able to determine directions for further improvement of knowledge and skills (including self-education) in the selected specialty and beyond it	Student can state applications of his results and future directions of research.	[SU3] text preparation/written work
[QITL3_U10] can popularize science within quantum information theory or related areas of physics	Student is able to popularise the results of the master project.	[SU3] text preparation/written work
[QITL3_U08] is able to communicate effectively with both specialists and non-specialists regarding issues relevant to the studied area	Student is able to present the results of the master project to both specialists and non-specialists in the field.	[SU3] text preparation/written work
[QITL3_U07] can present research results (experimental, theoretical or numerical) in written, oral, multimedia presentation or poster form	Student can present the results of the master project in a form of the thesis.	[SU3] text preparation/written work
[QITL3_U05] has the ability to synthesize methods and ideas from various areas of physics and other branches of science; is able to notice that distant phenomena are sometimes described by similar models	Student can relate the topic of the master thesis with other areas in physics and science.	[SU3] text preparation/written work

Subject contents

Master Thesis: two referees write reviews of the master thesis.

If both reviews are positive, the student is admitted to the Final Exam.

Final Exam: the student answers 3 questions from the programme of the studies.

<table>
<tr><td>Prerequisites and co-requisites</td><td colspan="3"></td></tr>
<tr><td>Assessment methods and criteria</td><td colspan="3"><table><tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr><tr><td>exam</td><td>51.0%</td><td>100.0%</td></tr></table></td></tr>
<tr><td rowspan="3">Recommended reading</td><td>Basic literature</td><td colspan="2">None.</td></tr>
<tr><td>Supplementary literature</td><td colspan="2">None.</td></tr>
<tr><td>eResources addresses</td><td colspan="2"></td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="3"></td></tr>
<tr><td>Work placement</td><td colspan="3">Not applicable</td></tr>
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