University of Gdańsk

Subject card

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|---|---|---|---|---|---|---|---|
| Subject name and code | Master Thesis and MA exam, PG_00165985 | | | | | | |
| 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 | | |
| 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.<br><br>If both reviews are positive, the student is admitted to the Final Exam.<br><br>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<br>[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<br>[SK3] 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_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 |
| | [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_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_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_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_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_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_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<br>[SK3] text preparation/written work |

| Subject contents | |
|---|---|
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<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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