University of Gdańsk

Subject card

Subject name and code	Graduate Seminar II, PG_00182345						
Field of study	Physics						
Date of commencement of studies	October 2026		Academic year of realisation of subject		2027/2028		
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		Polish		
Semester of study	4		ECTS credits		4.0		
Learning profile	academic		Assessment form		credit		
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor		dr Agata Lazarowska				
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	60.0	0.0	0.0	60
	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	60		0.0		40.0	100
Subject objectives	improving the skills of presenting ones own work and scientific papers on the subject related to the masters thesis, learning the legal conditions for using the intellectual achievements of others, learning how to synthetically present ones own knowledge from the entire scope of the physics studied, improving the skills of popularising physics.						

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[FIZMU2_U09] can determine the directions of further improvement of knowledge and skills (including self-education) in the field of the selected specialty and outside of it	The student is able to: – use literature and original scientific works related to their specialization published in English, – concisely present the regularities of physical phenomena in various fields of physics, – present the assumptions, postulates, and limitations of physical theories, – present the achievements of experimental and theoretical physics, with particular emphasis on the specialization covered by their master's thesis, – use computer programs for an attractive audiovisual presentation of the discussed topic, – ask questions and engage in critical and substantive discussions.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work
	[FIZMU2_U04] can find the necessary information in professional literature, both in databases and in other sources; can reconstruct the reasoning or the course of an experiment described in the literature, taking into account the assumptions and approximations made	The student is able to: – use literature and original scientific works related to their specialization published in English, – concisely present the regularities of physical phenomena in various fields of physics, – present the assumptions, postulates, and limitations of physical theories, – present the achievements of experimental and theoretical physics, with particular emphasis on the specialization covered by their master's thesis, – use computer programs for an attractive audiovisual presentation of the discussed topic, – ask questions and engage in critical and substantive discussions.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work
	[FIZMU2_K04] is ready to formulate competent opinions on advanced professional issues and to initiate actions for the public interest	The student is aware of/ understands: – the need to cite sources used in preparing a speech/presentation and is able to cite sources appropriately, – the need to obtain permission from the author of drawings, tables, graphs, etc. to use them, and knows how to request such permission from the author, – the ethics of using the scientific and artistic achievements of others, – the need to popularize reliable knowledge in society.	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK8] observation of student's independent or team work
	[FIZMU2_W01] has in-depth knowledge of various areas of physics; knows the history of the development of physics and its importance for the progress of exact and natural sciences, knowledge of the world and social development; has in-depth knowledge of the current directions of physics development and the fundamental dilemmas of modern civilization	The student knows and understands: – the key concepts from various areas of physics required to integrate knowledge and prepare for the Master's degree examination, – the relationships between different branches of physics and their importance for the development of modern science and technology, – current directions in the development of physics, particularly those related to the topic of the Master's thesis, – the role of physics in addressing contemporary scientific and technological challenges.	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report [SW3] text preparation/written work

Course outcome	Subject outcome	Method of verification
[FIZMU2_U07] can effectively communicate with both specialists and non-specialists in the area of study related to physics and to organize and lead discussions and debates on the subject	The student is able to: – use literature and original scientific works related to their specialization published in English, – concisely present the regularities of physical phenomena in various fields of physics, – present the assumptions, postulates, and limitations of physical theories, – present the achievements of experimental and theoretical physics, with particular emphasis on the specialization covered by their master's thesis, – use computer programs for an attractive audiovisual presentation of the discussed topic, – ask questions and engage in critical and substantive discussions.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work
[FIZMU2_U06] can present the results of research (experimental, theoretical, or numerical) in written, oral, multimedia presentation or poster	The student is able to: – use literature and original scientific works related to their specialization published in English, – concisely present the regularities of physical phenomena in various fields of physics, – present the assumptions, postulates, and limitations of physical theories, – present the achievements of experimental and theoretical physics, with particular emphasis on the specialization covered by their master's thesis, – use computer programs for an attractive audiovisual presentation of the discussed topic, – ask questions and engage in critical and substantive discussions.	[SU1] oral statement/conversation/ discussion [SU3] text preparation/written work [SU8] observation of student's independent or team work
[FIZMU2_K03] is ready to perform professional roles responsibly, requiring compliance with and development of professional ethics and working to ensure their compliance	The student is aware of / understands: – responsibility for the reliability of prepared materials and presented research results, – the necessity of adhering to the principles of research ethics and academic integrity, – the importance of proper citation of sources and respect for copyright and intellectual property, – the need to apply the principles of good scientific practice while preparing the Master's thesis and presenting its results.	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK8] observation of student's independent or team work
[FIZMU2_K01] is ready to critically evaluate the knowledge and content received, to formulate questions precisely and to further educate themselves and others	The student is aware of/ understands: – the need to cite sources used in preparing a speech/presentation and is able to cite sources appropriately, – the need to obtain permission from the author of drawings, tables, graphs, etc. to use them, and knows how to request such permission from the author, – the ethics of using the scientific and artistic achievements of others, – the need to popularize reliable knowledge in society	[SK1] oral statement/conversation/ discussion [SK3] text preparation/written work [SK8] observation of student's independent or team work

Subject contents	Papers related to the broad topic of the master's thesis. Short papers covering the entire physics course preparing for the diploma examination.

Prerequisites and co-requisites	Formal requirements: successful completion of the first year of second-cycle studies. Prerequisites: knowledge of computer software enabling audiovisual presentation of the content being presented.

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
not applicable	51.0%	80.0%
not applicable	0.0%	20.0%

Recommended reading	Basic literature: lack
	Supplementary literature: lack
	eResources addresses:
Example issues/ example questions/ tasks being completed	lack
Work placement	Not applicable

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