University of Gdańsk

Subject card

Subject name and code	Graduate Seminar, PG_00154273		
Field of study	Physics		
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 Optional subject group
Mode of study	full-time studies	Mode of delivery	at the university
Year of study	2	Language of instruction	Polish not applicable
Semester of study	3	ECTS credits	2.0
Learning profile	academic	Assessment form	credit
Conducting unit	Faculty of Mathematics, Physics and Informatics -> Rector		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. Sebastian Mahlik	
	Teachers	dr hab. Sebastian Mahlik dr hab. Stanisław Kryszewski	

Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	0.0	0.0	30.0	30
	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	30	0.0	30.0	60

Subject objectives	not applicable

Learning outcomes

Course outcome	Subject outcome	Method of verification
[FIZMU2_W06] has knowledge of current developments in physics, especially within his chosen specialty	not applicable	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
[FIZMU2_K08] is able to formulate competent opinions on professional issues and opinions on some issues that occupy public opinion, such as the greenhouse effect, renewable energy or nuclear energy	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[FIZMU2_U01] is able to apply the scientific method in solving physical problems, performing experiments and making inferences	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_K06] is aware of the risks in obtaining information from unverified sources, including the Internet	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[FIZMU2_U12] is able to use English in the field of physics, mathematics and computer science, in accordance with the requirements specified for level B2+ of the Common European Framework of Reference for Languages, to a degree that allows him/her to independently supplement his/her education and communicate with specialists in the same or related specialization	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_K07] is aware of the responsibility for jointly (team) carrying out research tasks	no aplicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
[FIZMU2_U11] is able to determine the directions of further improvement of knowledge and skills (including self-education) in the chosen specialty and beyond it	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_U10] is able to popularize science within his specialty or related areas of physics	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_U09] can work independently and in a team	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_U08] is able to communicate effectively with both specialists and non-specialists in the field of problems specific to the area of physics studied	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_U05] has the ability to synthesize methods and ideas from different areas of physics and other sciences; is able to see that even distant phenomena are described by similar models	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_U04] is able to find the necessary information in the literature, both in databases and other sources; is able to reproduce the reasoning or course of an experiment described in the literature, taking into account the assumptions and approximations made	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
[FIZMU2_K04] understands and appreciates the importance of intellectual honesty in one's own and others' actions; is aware of ethical issues in the context of research integrity	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report

	Course outcome	Subject outcome	Method of verification
	[FIZMU2_K03] is able to work individually and in a team; is aware of the responsibility for jointly implemented tasks	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[FIZMU2_K01] knows the limits of his own knowledge and skills; can formulate questions precisely; understands the need for further education of himself and others	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[FIZMU2_K02] is aware of the conclusive role of experiment in the verification of physical theories; is aware of the scientific method in the accumulation of knowledge	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[FIZMU2_U03] is able to make a critical analysis of the results of measurements, observations or theoretical calculations, together with an assessment of the accuracy of the results	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[FIZMU2_U06] is able to adapt knowledge and methodology of physics as well as applied experimental and theoretical methods to related scientific disciplines	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[FIZMU2_U07] is able to present the results of research (experimental, theoretical or numerical) in written, oral, multimedia presentation or poster form	not applicable	[SU1] oral statement/conversation/ discussion [SU2] presentation/project/paper/ report
	[FIZMU2_W01] has an extended knowledge of general physics and an advanced knowledge of a selected area of physics; knows the history of the development of physics and its importance for the progress of science and natural sciences, world cognition and social development	not applicable	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report
	[FIZMU2_K05] understands the need to popularize knowledge of physics including the latest scientific and technological developments	not applicable	[SK1] oral statement/conversation/ discussion [SK2] presentation/project/paper/ report
	[FIZMU2_W08] has a basic knowledge of the legal and ethical considerations involved in scientific and teaching activities	not applicable	[SW1] oral statement/ conversation/discussion [SW2] presentation/project/paper/ report

Subject contents	not applicable
Prerequisites and co-requisites	not applicable

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	not applicable
	Supplementary literature	not applicable
	eResources addresses	
Example issues/ example questions/ tasks being completed	not applicable	
Work placement	Not applicable	

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