

## Subject card

Subject name and code	Seminar of applied physics III, PG_00037274								
Field of study	Technical Physics								
Date of commencement of									
studies	00.0001 2020		Academic year of realisation of subject			2025/2026			
Education level	first-cycle studies		Subject group			Optional subject group			
						Subject group related to scientific research in the field of study			
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit		Division of Atomic Molecular and Optical Physics -> Institute of Physics and Applied Computer Science -> Faculty of Applied Physics and Mathematics -> Faculties of Gdańsk University of Technology						Science ->	
Name and surname	Subject supervisor		dr Mykola Shopa						
of lecturer (lecturers)	Teachers		dr Mykola Sh	ора					
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	0.0		15.0	15	
	E-learning hours included: 0.0								
	eNauczanie source address: https://enauczanie.pg.edu.pl/moodle/course/view.php?id=23315								
Learning activity and number of study hours	Learning activity	ng activity Participation in classes include plan				Self-study		SUM	
	Number of study hours			2.0		8.0		25	
Subject objectives	Teaching of students how to present the short lecture on selected subject, as well as how to discuss								
Learning outcomes	Course outcome		Subject outcome		Method of verification				
	[K6_U08] Can prepare written works and speeches in Polish and English, concerning detailed issues of physics and related fields, and scientific disciplines.		The student gives a presentation in Polish or English, explaining selected physics topics, answering questions and using correct terminology.			[SU1] Assessment of task fulfilment			
	[K6_U01] Can learn independently, obtain information from literature, databases and other properly selected sources.		The student independently formulates a search plan and identifies reliable and appropriate sources of information.			[SU4] Assessment of ability to use methods and tools			
	[K6_K05] Can present own work results, transfer information in a commonly understandable manner, communicate and self-evaluate, as well as constructively evaluate the effects of other persons' work.		The student delivers a seminar, answers audience questions, paraphrases a question, provides a factual answer, or admits a lack of knowledge and suggests ways to improve it. The student participates in discussions and evaluates other students' presentations.			[SK4] Assessment of communication skills, including language correctness			
	[K6_U07] Can present basic facts within the scope of physics and other scientific disciplines in a clear manner.		The student is able to present a selected topic in a way that is understandable and accessible to the audience, at an appropriate scientific level.			[SU1] Assessment of task fulfilment			
Subject contents	Course content – seminar  - Collection of material for oral presentation on a given subject;  - Discussion about the scientific problems and comments								
Prerequisites and co-requisites									

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Oral presentation, abstract, attendance	50.0%	100.0%			
Recommended reading	Basic literature Depends on the subject of the presentation - students is free to choose the topic					
	Supplementary literature	Depends on the problem				
	eResources addresses					
Example issues/ example questions/ tasks being completed	eResources addresses  1. Young's double-slit experiment applied to the interference of single electrons 2. Galileo's experiment on falling bodies (1600s) 3. Newton's decomposition of sunlight with a prism (1665-1666) 4. Young's light-interference experiment (1801) 5. Cavendish's torsion-bar experiment (1798) 6. Eratosthenes' measurement of the Earth's circumference (3rd century BC) 7. Galileo's experiments with rolling balls down inclined planes (1600s) 8. Rutherford's discovery of the nucleus (1911) 9. Foucault's pendulum (1851) 10. Archimedes' experiment on hydrostatics 11. Roemer's observations of the speed of light 12. Joule's paddle-wheel heat experiments 13. Reynolds's pipe flow experiment 14. Mach & Salcher's acoustic shock wave 15. Michelson-Morley measurement of the null effect of the ether 16. Röntgen's detection of Maxwell's displacement current 17. Oersted's discovery of electromagnetism 18. The Braggs' X-ray diffraction of salt crystals 19. Eddington's measurement of the bending of starlight 20. Stern-Gerlach demonstration of space quantization 21. Schrödinger's cat thought experiment 22. Wu et al.'s measurement of parity violation					
Practical activites within the subject	Not applicable					

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