University of Gdańsk

Subject card

Subject name and code	Physics teaching in secondary school, PG_00182351						
Field of study	Physics						
Date of commencement of studies	October 2025		Academic year of realisation of subject	2025/2026			
Education level	Master's studies		Subject group				
Mode of study	full-time studies		Mode of delivery	at the university			
Year of study	1		Language of instruction	Polish			
Semester of study	2		ECTS credits	4.0			
Learning profile	academic		Assessment form	credit			
Conducting unit	Laboratory for Physics Teaching -> Institute of Experimental Physics -> Faculty of Mathematics, Physics and Informatics -> Rector						
Name and surname of lecturer (lecturers)	Subject supervisor	dr Adrian Kołodziejski					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	30.0	30.0	0.0	0.0	75
	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	75		0.0	0.0	75	
Subject objectives	Acquisition of knowledge in the field of physics didactics necessary for the practice of the profession of a physics teacher in secondary school.						

Learning outcomes

Course outcome	Subject outcome	Method of verification
	The course fulfills the following detailed learning outcomes as set forth in the Regulation of the Minister of Science and Higher Education of 25 July 2019 on the standards of education preparing for the teaching profession: D.1/E.1.W1., D.1/E.1.W2., D.1/E.1.W3., D.1/E.1.W4., D.1/E.1.W5., D.1/E.1.W6., D.1/E.1.W7., D.1/E.1.W8., D.1/E.1.W9., D.1/E.1.W10., D.1/E.1.W11., D.1/E.1.W12., D.1/E.1.W13., D.1/E.1.W14., D.1/E.1.W15., D.1/E.1.U1., D.1/E.1.U2., D.1/E.1.U3., D.1/E.1.U4., D.1/E.1.U5., D.1/E.1.U6., D.1/E.1.U7., D.1/E.1.U8., D.1/E.1.U9., D.1/E.1.U10., D.1/E.1.U11., D.1/E.1.K1., D.1/E.1.K2., D.1/E.1.K3., D.1/E.1.K4., D.1/E.1.K5., D.1/E.1.K6., D.1/E.1.K7., D.1/E.1.K8., D.1/E.1.K9.	[SW4] test/exam - oral or written [SU3] text preparation/written work

Subject contents	Application of formative assessment strategies in secondary school Methods of implementing the indicated educational content at the secondary school level Problem-based teaching
Prerequisites and co-requisites	A student commencing the course Didactics of Physics in Secondary School must have passed courses from the block Psychological and Pedagogical Preparation for Teachers (courses from groups A, B, and C in accordance with the Teacher Education Standards).

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
Completion of all course assignments	51.0%	50.0%
Exam	51.0%	50.0%

Recommended reading

Basic literature	Legal acts of the Ministry of National Education / Ministry of Science and Higher Education school textbooks popular science literature in physics M. Głowacki Dydaktyka fizyki, zagadnienia ogólne, Wydawnictwo WSP Częstochowa, 1994 M. Głowacki Dydaktyka fizyki, zagadnienia szczegółowe, Wydawnictwo WSP Częstochowa, 1996 K. Kruszewski (red.) Sztuka nauczania. Czynności nauczyciela, Wydawnictwo Naukowe PWN, Warszawa 2004
Supplementary literature	Workbooks for teaching physics in secondary school
eResources addresses	

Example issues/ example questions/ tasks being completed	
Work placement	Not applicable

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