

**Subject card**

<b>Subject name and code</b>	Physics teaching in secondary school, PG_00182351						
<b>Field of study</b>	Physics						
<b>Date of commencement of studies</b>	October 2026	<b>Academic year of realisation of subject</b>				2026/2027	
<b>Education level</b>	Master's studies	<b>Subject group</b>					
<b>Mode of study</b>	full-time studies	<b>Mode of delivery</b>				at the university	
<b>Year of study</b>	1	<b>Language of instruction</b>				Polish	
<b>Semester of study</b>	2	<b>ECTS credits</b>				4.0	
<b>Learning profile</b>	academic	<b>Assessment form</b>				credit	
<b>Conducting unit</b>	Laboratory for Physics Teaching -> Institute of Experimental Physics -> Faculty of Mathematics, Physics and Informatics -> Rector						
<b>Name and surname of lecturer (lecturers)</b>	<b>Subject supervisor</b>		dr Adrian Kołodziejski				
	<b>Teachers</b>						
<b>Lesson types</b>	<b>Lesson type</b>	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	<b>Number of study hours</b>	15.0	30.0	30.0	0.0	0.0	75
	E-learning hours included: 0.0						
<b>Learning activity and number of study hours</b>	<b>Learning activity</b>	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	<b>Number of study hours</b>	75		0.0		0.0	75
<b>Subject objectives</b>	Acquisition of knowledge in the field of physics didactics necessary for the practice of the profession of a physics teacher in secondary school.						
<b>Learning outcomes</b>	<b>Course outcome</b>		<b>Subject outcome</b>			<b>Method of verification</b>	
			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	<p>Application of formative assessment strategies in secondary school</p> <p>Methods of implementing the indicated educational content at the secondary school level</p> <p>Problem-based teaching</p>											
Prerequisites and co-requisites	<p>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).</p>											
Assessment methods and criteria	<table border="1"> <thead> <tr> <th data-bbox="456 629 794 656">Subject passing criteria</th> <th data-bbox="799 629 1137 656">Passing threshold</th> <th data-bbox="1142 629 1469 656">Percentage of the final grade</th> </tr> </thead> <tbody> <tr> <td data-bbox="456 663 794 689">Exam</td> <td data-bbox="799 663 1137 689">51.0%</td> <td data-bbox="1142 663 1469 689">50.0%</td> </tr> <tr> <td data-bbox="456 696 794 741">Completion of all course assignments</td> <td data-bbox="799 696 1137 723">51.0%</td> <td data-bbox="1142 696 1469 723">50.0%</td> </tr> </tbody> </table>			Subject passing criteria	Passing threshold	Percentage of the final grade	Exam	51.0%	50.0%	Completion of all course assignments	51.0%	50.0%
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Recommended reading	<p>Basic literature</p>	<p>Legal acts of the Ministry of National Education / Ministry of Science and Higher Education</p> <p>school textbooks</p> <p>popular science literature in physics</p> <p>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</p>										
	<p>Supplementary literature</p>	<p>Workbooks for teaching physics in secondary school</p>										
	<p>eResources addresses</p>											
Example issues/ example questions/ tasks being completed												
Work placement	<p>Not applicable</p>											

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