

Subject card

Subject name and code	School and Teacher (Lecture & Classes), PG_00138471						
Field of study	Physics						
Date of commencement of studies	October 2026	Academic year of realisation of subject				2028/2029	
Education level	Bachelor's studies	Subject group					
Mode of study	full-time studies	Mode of delivery				at the university	
Year of study	3	Language of instruction				Polish	
Semester of study	5	ECTS credits				1.0	
Learning profile	academic	Assessment form				credit	
Conducting unit							
Name and surname of lecturer (lecturers)	Subject supervisor	dr Paweł Śpica					
	Teachers						
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	16.0	4.0	0.0	0.0	0.0	20
	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	20		1.0		4.0	25
Subject objectives	nie dotyczy						
Learning outcomes	Course outcome	Subject outcome			Method of verification		
		nie dotyczy			[SW4] test/exam - oral or written [SW1] oral statement/conversation/discussion [SW5] implementation of a problem task [SU1] oral statement/conversation/discussion [SU4] test/exam - oral or written [SU5] implementation of a problem task [SU8] observation of student's independent or team work [SK1] oral statement/conversation/discussion [SK5] implementation of a problem task [SK8] observation of student's independent or team work		
Subject contents	nie dotyczy						
Prerequisites and co-requisites	nie dotyczy						
Assessment methods and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade		
	nie dotyczy		100.0%		0.0%		
	nie dotyczy		51.0%		100.0%		
Recommended reading	Basic literature		nie dotyczy				
	Supplementary literature		nie dotyczy				
	eResources addresses						

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

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