

## Subject card

Subject name and code	Object-oriented programming languages I, PG_00020771							
Field of study	Technical Physics							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2022/2023		
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	2		Language of instruction			Polish		
Semester of study	3		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Math						Mathematics	
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Patryk Jasik					
	Teachers dr inż. Patryk Jasik							
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	t	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	0.0		0.0	15
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes include plan		Participation in consultation hours		Self-study		SUM
	Number of study hours	15		10.0		25.0		50
Subject objectives	Presentation of the ideology of the object-oriented programming.							
Learning outcomes	Course outcome Subject outcome Method of verifica					ication		
	K6_W05		The student knows the foundations of object-oriented programming.			[SW1] Assessment of factual knowledge		
	K6_U03		The student creates computer programs using object-oriented techniques.		[SU1] Assessment of task fulfilment			
	K6_K01		The student uses continuously developed object-oriented programming languages to create computer software.		[SK5] Assessment of ability to solve problems that arise in practice			
Subject contents	Software quality and the main goals of the object-oriented programming. Criteria of object orientation. Modularity. Approaches to reusability. Object-based decomposition. Object-oriented software construction. Abstract data types. The static structure: classes. The run-time structure: objects.							
Prerequisites and co-requisites	Knowledge of courses Procedural Programming Languages I and II (FIZ1C301 and FIZ1C307).							
Assessment methods	Subject passing criteria		Passing threshold			Percentage of the final grade		
and criteria	A written knowledge test of the lecture		50.0%			100.0%		
Recommended reading	Basic literature		B. Meyer – "Object-Oriented Software Construction", Prentice Hall 1997					
	Supplementary literature		B. D. McLaughlin, G. Pollice, D. West, "Head First Object-Oriented Analysis and Design", O'Reilly Media 2006					
	eResources addresse	Adresy na platformie eNauczanie: Obiektowe Języki Programowania I (2022) - Moodle ID: 24038 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=24038						
Example issues/ example questions/ tasks being completed								
Work placement	Not applicable							
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