

Subject card

Subject name and code	Object-oriented programming languages I, PG_00020771							
Field of study	Technical Physics							
Date of commencement of	October 2022	Academic year of			2023/2024			
studies			realisation of subject			2020/2027		
Education level	first-cycle studies Full-time studies		Subject group			Optional subject group		
						Subject group related to scientific research in the field of study		
Mode of study						at the university		
Year of study	2		Mode of delivery Language of instruction			Polish		
Semester of study	3		ECTS credits			2.0		
Learning profile	general academic profile		Assessment form			assessment		
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Conducting unit	Katedra Fizyki Teoretycznej i Informatyki Kwantowej -> Faculty of Applied Physics and Mathematics Subject supervisor dr inż. Patryk Jasik						matics	
Name and surname of lecturer (lecturers)	Teachers		dr inż. Patryk Jasik					
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Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	·		Seminar	SUM
of instruction	Number of study hours	15.0	0.0 0.0 0.0		0.0		0.0	15
	E-learning hours inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation i classes includ			Participation in consultation hours		tudy	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 verification							
	K6_W05		The student knows the foundations of object-oriented programming.			[SW1] Assessment of factual knowledge		
	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		
	K6_U03		The student creates computer programs using object-oriented techniques.			[SU1] Assessment of task fulfilment		
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			50.0%	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 addresses		Adresy na platformie eNauczanie: Obiektowe Języki Programowania I (2023) - Moodle ID: 30100 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=30100					
Example issues/ example questions/ tasks being completed								

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Work placement	Not applicable

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