

## § GDAŃSK UNIVERSITY § OF TECHNOLOGY

## Subject card

Subject name and code	Object-oriented programming languages I, PG_00020771								
Field of study	Technical Physics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2021/2022			
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 a		and Quantum Information -> Faculty of				f Applied Physics and 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	Projec	ct Seminar		SUM	
	Number of study hours	15.0	0.0	0.0	0.0	0.0		15	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM	
	Number of study 15 hours			10.0		25.0 50		50	
Subject objectives	Presentation of the ideology of the object-oriented programming.								
Learning outcomes	Course outcome Subject outcome Method of verification					rification			
	К6_К01		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				
	K6_W05		The student knows the foundations of object-oriented programming.		[SW1] Assessment of factual knowledge				
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 and criteria	Subject passing criteria		Passing threshold		Percentage of the final grade				
	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								
Example issues/ example questions/ tasks being completed									
Work placement	Not applicable								