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 and Quantum Information -> Faculty of 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	Project	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 didactic classes included in study 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 verification
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
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 addresses	

Example issues/ example questions/ tasks being completed

Work placement

Not applicable