

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Programming in C++, PG_00066244								
Field of study	Mathematics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/	2024/2025		
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	at the university		
Year of study	3		Language of instruction			Polish	Polish		
Semester of study	6		ECTS credits			4.0	4.0		
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Institute of Applied Mathematics -> Faculty of Applied Physics and Mathematics								
Name and surname	Subject supervisor		dr inż. Jakub Maksymiuk						
of lecturer (lecturers)	Teachers		dr inż. Jakub Maksymiuk						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	ct	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	45.0	0.0		0.0	60	
	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 60 hours		5.0		35.0 100				
Subject objectives	The aim of the course is to expand skills in programming and implementing programs in C++ with an emphasis on the latest standard, using the standard library and object-oriented programming.								
Learning outcomes	Course out	Subj			Method of verification				
	K6_W08					[SW3] Assessment of knowledge contained in written work and projects [SW1] Assessment of factual knowledge			
	К6_К02		The student is able to precisely formulate questions that allow searching for information in the C+ + documentation and then apply them to solve the problem.			[SK2] Assessment of progress of work			
	K6_W03					[SW1] Assessment of factual knowledge [SW3] Assessment of knowledge contained in written work and projects			
Subject contents	Lecture: · a short description of the modern C++ language standard · selected modules from the C++ standard library · OOP in C++ · comments on good programming practices · As part of the laboratory, students perform exercises consisting of writing programs related to selected topics discussed during the lecture.								
Prerequisites and co-requisites	basics of C++ programming								
	· basic knowledge of algorithms and data structures								
Assessment methods	Subject passing criteria		Passing threshold		Percentage of the final grade				
and criteria			-			100.0%			

Recommended reading	Basic literature	 I. Horton, P. van Veert, Beginning C++20, Apress 2020 P. van Veert, M. Gregoire, C++17 Standard Library Quick Reference, Apress 2019 			
	Supplementary literature	 htttp://cppreference.com https://isocpp.github.io/CppCoreGuidelines/ D. Vandevoorde, N. M. Josuttis, D. Gregor, C++ Templates The Complete Guide, Addison-Wesley 2018 			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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