

。 GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Objective programming, E:41052W0								
Field of study	Space and Satellite Technologies								
Date of commencement of studies	, ,		Academic year of realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group						
Mode of study	Full-time studies		Mode of delivery			at the university			
Year of study	1		Language of instruction			English			
Semester of study	1		ECTS credits			2.0			
Learning profile			Assessment form			assessment			
Conducting unit	Department of Geoinformatics -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname	Subject supervisor dr hab. inż. Emilia Lubecka								
of lecturer (lecturers)	Teachers				-				
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory Project		t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	0.0		0.0	30	
		E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity	Participation in classes includ plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		0.0		0.0		30	
Subject objectives	Theory and practice on object oriented programming.								
Learning outcomes	Course outcome Subject outcome Method of verification							rification	
	[K7_K03] Can analyse and implement assigned tasks while maintaining high technical standards. Is able to work and interact in a group, taking on different roles. Adheres to the principles of professional ethics and respects the diversity of views and cultures.		related to objective programming maintaining high technical standards.			[SK2] Assessment of progress of work			
	K7_U12		Student acquires practical skills on writing object-oriented software by performing laboratory tasks in specific programming languages.			[SU1] Assessment of task fulfilment			
	K7_W12		Student has knowledge of object-			[SW1] Assessment of factual knowledge			
Subject contents	 Software programming paradigms including object oriented approach Encapsulation, inheritance, abstraction and polymorphism in C++ language Specific features of C++ object-orientation Java language and its comparison to C++ language C# language as successor of C++ and Java languages Python as a scripting object oriented language 								
Prerequisites and co-requisites	Knowledge on non-object oriented language i.e. C language.								
Assessment methods and criteria	Subject passing criteria		Passing threshold 60.0%		Percentage of the final grade 50.0%				
	laboratory					50.0%			
Recommended reading	Basic literature 1. Bjarne Strastroup: The C++ programming language 2. Bruce Eckel: Thinking in Java 3. Andy Harris: Microsoft C# for absolute beginner 4. Mark Lutz: Programming Python								
	Supplementary literature None.								

	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed	 Sample task: implementation of simple object oriented software module using object oriented paradign different languages Sample question: Describe object oriented paradigm. What are the differences between C++ and java languages. 			
Work placement	Not applicable			

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