

Subject card

Subject name and code	High Level Programming Languages - project, PG_00048069								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2025		Academic year of realisation of subject			2026/2027			
Education level	first-cycle studies		Subject group			Obligatory subject group in the field of study			
						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	4		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department Of Biomedical Engineering -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Mazur-Milecka						
	Teachers		dr inż. Magdalena Mazur-Milecka						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	0.0	15.0		0.0	15	
		1		i					
Learning activity and number of study hours	Learning activity	Participation in di classes included plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	15		1.0		9.0		25	
Subject objectives	The aim of the course is to familiarize students with selected high-level programming languages, as a development of the already gained programming knowledge and skills. An important objective is to show the similarities between the languages of the same class so that the student can easily learn a new programming language based on the well-known, previously learned programming language.								
Learning outcomes	arning outcomes Course outcome			Subject outcome			Method of verification		
	[K6_W04] knows and understands, to an a extent, the principles and techniques of principles and the principles of software development programming devices controllers using mic or programmable elesystems specific to the study, and organisating systems using compiled to the study of the stud	The student knows the principles and rules of object-oriented programming. Knows and understands the paradigms (OOP) and techniques used in object-oriented programming.			[SW1] Assessment of factual knowledge				
	[K6_U04] can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study		The student is able to write programs in Java and C#, implement algorithms, create and use class libraries, create a graphical interface of the program using dedicated programming tools.			[SU1] Assessment of task fulfilment			
Subject contents	1. Introduction to high-level languages. 2. Java language - basics, code construction, 3. Java language: identifiers and variables, data types, operators 4. Introduction to object modeling 5. Classes and constructors 6. Inheritance 7. Encapsulation and Polymorphism 8. Exception handling, arrays and collections 9. Abstract classes and interfaces 10. Introduction to graphics 11. Graphics: components and containers 12. Event handling 13. I/O operations 14. C# basics 15. C# basics.								

Data wygenerowania: 24.04.2025 17:32 Strona 1 z 2

Prerequisites and co-requisites	No requirements					
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	Lecture - tests	50.0%	40.0%			
	Laboratory exercises	51.0%	60.0%			
Recommended reading	Basic literature	Sun:Language Specification, Sierra Kathy, Bates, Bert Gee Trisha, Java. Head first!, 2023, Andrew Stellman, Jennifer Greene, C#. Head first!, 2022				
	Supplementary literature	No requirements				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed						
Work placement	Not applicable					

Document generated electronically. Does not require a seal or signature.

Data wygenerowania: 24.04.2025 17:32 Strona 2 z 2