

Subject card

Subject name and code	High Level Programn	ning Languages	s, PG_000479 ²	17					
Field of study	Electronics and Telecommunications								
Date of commencement of studies			Academic year of realisation of subject			2024/2025			
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			2.0			
Learning profile	general academic pro	file	Assessment form		assessment				
Conducting unit	Department of Biome	dical Engineeri	ng -> Faculty o	of Electronics,	Telecom	munica	ations and Inf	ormatics	
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	Project Ser		SUM	
	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 include plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
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.								

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Course outcome Subject outcome Method of verification						
understands, to an advanced extent, methods of supporting processes and functions, specific to the field of study Comparison of the field of study						
programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or programming devices or the field of: - installing and configuring the programming environment for the programming language (Java, C #, JavaScript), - write a program in Java,						
controllers using microprocessors or programmable elements or systems specific to the field of study - creation and use of Java class libraries, - write a program launched in the WWW browser environment, - write a simple program in C #, - write a simple program in JavaScript.						
Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. C Java (loops, flow control instructions). 4. OOP: Java (i/o operations, applications of communication interfaces). 5. OOP: Java (graphics). 6. OOL: Java (OOP features) 7. OOL: Java (OOP features) 8. OO Java (raster and vector graphics) 9. OOL: C# (language specification in reference to Java) 10. OOL: C (program design and implementation), 11. Modern OOL languages, 12. Modern OOL languages, 13. Scripting languages (SL): JavaScript. 14. Scripting languages (SL): JavaScript., 15. 13. Scripting languages	1. Review and classification of high level programming languages. 2. Object-oriented programming (OOP): Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. OOP: Java (loops, flow control instructions). 4. OOP: Java (i/o operations, applications of communication interfaces). 5. OOP: Java (graphics). 6. OOL: Java (OOP features) 7. OOL: Java (OOP features) 8. OOL: Java (raster and vector graphics) 9. OOL: C# (language specification in reference to Java) 10. OOL: C# (program design and implementation), 11. Modern OOL languages, 12. Modern OOL languages, 13. Scripting languages (SL): JavaScript. 14. Scripting languages (SL): JavaScript., 15. 13. Scripting languages (SL): JavaScript.					
Prerequisites No requirements						
and co-requisites						
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final gr	ade					
255476 1555	40.0%					
Recommended reading Basic literature Sun:Language Specification, http://java.sun.com Perry S.C.: Core and .NET: The Complete and Comprehensive Developer"s Guide 2.0 and .NET 2.0, Prentice Hall, 2005 Ballard P., Moncur M.: San Teach Yourself Ajax, JavaScript, and PHP All in One, Sams, 200 Microsoft: .Net and C# specifications, http://www.microsoft.com V L., Thomson L.: PHP and MySQL Web Development, Addison-W	Sun:Language Specification, http://java.sun.com Perry S.C.: Core C# and .NET: The Complete and Comprehensive Developer"s Guide to C# 2.0 and .NET 2.0, Prentice Hall, 2005 Ballard P., Moncur M.: Sams Teach Yourself Ajax, JavaScript, and PHP All in One, Sams, 2008 Microsoft: .Net and C# specifications, http://www.microsoft.com Welling L., Thomson L.: PHP and MySQL Web Development, Addison-Wesley Professional, 2008 Eckel B.: Thinking In Java, Prentice Hall, 2006					
Supplementary literature No requirements	No requirements					
eResources addresses Adresy na platformie eNauczanie:	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed						
Work placement Not applicable						

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