

Subject card

Subject name and code	Modern Programming Languages, PG_00047847								
Field of study	Biomedical Engineering								
Date of commencement of studies	October 2024		Academic year of realisation of subject		2026/2027				
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	3		Language of instruction			Polish			
Semester of study	5		ECTS cred	ECTS credits		3.0			
Learning profile	general academic profile		Assessme	essment form		assessment			
Conducting unit	Department of Biomedical Engineering -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Magdalena Mazur-Milecka						
	Teachers		dr inż. Magdalena Mazur-Milecka						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project		Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	15.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in didacticlasses included in stuplan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		3.0		27.0		75	
Subject objectives	The aim of the course is to introduce students with selected modern high-level programming languages								

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IRG_WOLD knows and uncertaints, to an advanced extent, the principles, methods and the principles of computer software development or programming environment for the programming environment or subject to the field of study, and organisation of systems using computers or such devices. IRG_UOL] can apply browdedge or creating a graphical interface of programming methods and tools in computer environment or comportant or comport	Learning outcomes	Course outcome	Subject outcome	Method of verification				
Subject contents Subject con		understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such	- installing and configuring the programming environment for the programming language (Java, C #, PHP, JavaScript), - write a program in Java, - algorithm implementation, - performing calculations using programming languages - creation and use of Java class libraries, - write a program launched in the WWW browser environment, - solving simple computational problems and data processing using created software, - write a simple program in C # or another object language, - creating a graphical interface of the program using dedicated	[SW1] Assessment of factual				
Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. OOP: Java (loops, flow control instructions) 4. OOP: Java (looperations, applications of communication interfaces) 5. OOP: Java (graphics) 6. OOL: Java (OOP features) 7. OOL: Java (OOP features) 8. OOL: Java (rester and vector graphics) 9. OOL: Cave (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. 14. Scripting languages (SL): JavaScript., 15. 13. Scripting languages (SL): JavaScript. acquired knowledge and skills in programming in C and C + + Prerequisites		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	Student skills gained: - Install and configure your development environment to the programming language (Java, C # JavaScript) - Write a program in Java - The creation and use of Java class libraries, - Write a program that runs in a Web browser environment, - Solving simple problems of computing and data processing using a set of software - Write a simple program in C # - Write a simple program in JavaScript, - The creation of graphical user interface program using dedicated tools, - Search and use of available programming libraries (APIs, class	present the results of task [SU1] Assessment of task				
Assessment methods and criteria Subject passing criteria Passing threshold Percentage of the final grade	·	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						
and criteria Tests D.0% Practical exercise D.0% Project Solow 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: 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 eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed		acquired knowledge and skills in pro	gramming in C and C + +					
Practical exercise Project 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 Professional, 2008 Eckel B.: Thinking In Java,Prentice Hall, 2006 Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed	Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
Recommended reading Basic literature Basic lit	and criteria	Tests	0.0%	40.0%				
Recommended reading Basic literature 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 eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed		Practical exercise	50.0%	30.0%				
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 eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed		Project	50.0%	30.0%				
eResources addresses Adresy na platformie eNauczanie: Example issues/ example questions/ tasks being completed	Recommended reading	and .NET: The Complete and Comprehensive Developer"s Guic 2.0 and .NET 2.0, Prentice Hall, 2005 Ballard P., Moncur M.: Sa Teach Yourself Ajax, JavaScript, and PHP All in One, Sams, 20 Microsoft: .Net and C# specifications, http://www.microsoft.com L., Thomson L.: PHP and MySQL Web Development, Addison-V						
Example issues/ example questions/ tasks being completed		Supplementary literature	No requirements					
example questions/ tasks being completed								
Work placement Not applicable	example questions/							
A VOIR PROGRAMMENT	Work placement	Not applicable						

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