

Subject card

Subject name and code	High Level Programming Languages, PG_00047917							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2025/2026		
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 profile		Assessment 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 of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	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.							

Data wydruku: 30.06.2024 21:33 Strona 1 z 2

Inc. LUAI) can apply knowledge of programming methods and techniques as well as select and apply appropriate programming methods and tools in computer software development or controllers using microprocessors or programmate elements or systems specific to the field of study PKE_WDS Knows and microprocessors or programmate elements or systems specific to the field of study PKE_WDS Knows and microprocessors or programmate elements or systems specific to the field of study PKE_WDS Knows and microprocessors or programmate in an advanced coxent, methods of supporting processes and functions, specific to the field of study PKE_WDS Knows and microprocessors and functions, specific to the field of study in the field of study and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specific to the field of study, and organization of systems specification of the programming languages. Subject contents	Learning outcomes	Course outcome	Subject outcome	Method of verification				
understands, to an advanced extent, methods of supporting processes and functions, specific to the field of study -algorithm implementation, -performing calculations using programming languages - solving simple computational problems and data processing using created software. [KG_W04] knows and 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 programmating devices or controllers using microprocessors or programmating devices or controllers using microprocessors or systems specific to the field of study, and organisation of systems specific to the field of study, and organisation of systems using computers or such devices 1. Review and classification of high level program in Java, -creation and use of Java class libraries, -wite a program launched in the WWW browser environment, using program in Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. OOP: Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. OOP: Java (Java platform, code composition, classes, objects, variables, data types, exceptions, errors) 3. OOP: Java (graphics) 6. OOL: Java (OOP features) 7. OOL: Java (OOP features) 8. OOL: Java (OOP features) 9. OOL:		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	The student has acquired skills in the field of: - installing and configuring the programming environment for the programming language (Java, C #, JavaScript), - write a program in Java, - 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	fulfilment [SW1] Assessment of factual				
understands, to an advanced extent, the principles of programming and the principles of computer software development or programming devices or controllers using microprocessors or programming devices or controllers using microprocessors or programming devices or controllers using microprocessors or programming devices or systems specific to the field of study, and organisation of systems using computers or such devices 1. Review and classification of high level programming languages. 2. Object-oriented programming (OOP): Java (page) Jav		understands, to an advanced extent, methods of supporting processes and functions, specific	field of: - algorithm implementation, - performing calculations using programming languages - solving simple computational problems and data processing					
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 (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. No requirements No requirements		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	field of: - installing and configuring the programming environment for the programming language (Java, C #, JavaScript), - write a program in Java, - 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					
Prerequisites and co-requisites Assessment methods and criteria Subject passing criteria Laboratory exercises Lecture - tests D.0% Percentage of the final grade 1.0% Recommended reading Basic literature 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 Professional, 2008 Eckel B.: Thinking In Java,Prentice Hall, 2006 Adresy na platformie eNauczanie: Example issues/ example questions/	Subject contents	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., 15. 13. Scripting languages						
Assessment methods and criteria Subject passing criteria								
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Lecture - tests 0.0% 40.0%		· · · · · · · · · · · · · · · · · · ·	•					
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Example issues/ example questions/		Supplementary literature	No requirements					
example questions/		eResources addresses	Adresy na platformie eNauczanie:					
Work placement Not applicable	Work placement	Not applicable						

Data wydruku: 30.06.2024 21:33 Strona 2 z 2