

## Subject card

Subject name and code	Technological Platforms, PG_00047670							
Field of study	Informatics							
Date of commencement of studies	October 2022		Academic year of realisation of subject		2023/2024			
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 de	Node of delivery			at the university		
Year of study	2		Language of instruction			Polish		
Semester of study	4		ECTS credits			3.0		
Learning profile	general academic profile		Assessment form			assessment		
Conducting unit	Department of Radiocommunication Systems and Networks -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname	Subject supervisor		dr inż. Krzysztof Cwalina					
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Cwalina					
			dr inż. Wojciech Siwicki					
			dr inż. Jarosław Magiera					
			dr inż. Marcin Narloch					
			dr inż. Piotr Kurgan					
			mgr inż. Alicja Olejniczak					
			dr inż. Łukas:	z Gołuński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM
	Number of study hours	15.0	0.0	30.0	0.0		0.0	45
	E-learning hours incli	uded: 0.0						
Learning activity and number of study hours	Learning activity	Participation i classes including plan				Self-study		SUM
	Number of study hours	45		15.0		15.0		75
Subject objectives	Presentation of technological platforms: .NET and Java							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
	[K6_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 programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices	Knows and understands programming methods in C # and Java.	[SW1] Assessment of factual knowledge				
	[K6_W07] Knows and understands, to an advanced extent, the general principles of setting up and development of business entities, forms of individual entrepreneurship and running ventures in the field specific to the field of study	Knows and understands how to create applications in C # and Java.	[SW1] Assessment of factual knowledge				
	[K6_U01] can apply mathematical knowledge to formulate and solve complex and non-typical problems related to the field of study and perform tasks, in an innovative way, in not entirely predictable conditions, by:n- appropriate selection of sources and information obtained from them, assessment, critical analysis and synthesis of this information,n-selection and application of appropriate methods and toolsn	Can implement algorithms in C # and Java	[SU1] Assessment of task fulfilment				
Subject contents	Java: Java Platform, conventions and startup, Project building - Maven, Collections and comparison of objects, Thread support, I/O support, Network sockets, Java Persistence API, Software testing, Parallelization of operations;  NET: Introduction to .NET., language comparison, WPF, Entity Framework, LINQ, Asynchronous applications						
Prerequisites and co-requisites	Knowledge of object oriented programming.						
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Assessment methods and criteria	Subject passing criteria	Passing threshold 50.0%	Percentage of the final grade 50.0%				
	Midterm colloquium Practical exercise	50.0%	50.0%				
Recommended reading	Basic literature  C. Nagel, B. Evjen, J. Glynn, M. Skinnerand, K. Watson Professional C# 2005 with .NET 3.0, Wrox Press 2007 The Java Tutorial, Oracle, 2010 Bruce Eckel: Thinking in Java 4th Edition Code Conventions for the Java Programming Language						
	Supplementary literature  E. Jendrock, I. Evans, D. Gollapudi, K. Haase, C. Srivathsa: "The Jav EE 6 Tutorial", Oracle, 2010						
	eResources addresses	Adresy na platformie eNauczanie: Platformy technologiczne - 2023/2024 - Moodle ID: 35801 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=35801					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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