



## Subject card

Subject name and code	Technological Platforms, PG_00047724						
Field of study	Informatics						
Date of commencement of studies	October 2025		Academic year of realisation of subject		2025/2026		
Education level	second-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	Part-time studies		Mode of delivery		at the university		
Year of study	1		Language of instruction		Polish		
Semester of study	2		ECTS credits		5.0		
Learning profile	general academic profile		Assessment form		exam		
Conducting unit	Department of Computer Architecture -> Faculty of Electronics Telecommunications and Informatics -> Wydział Politechniki Gdańskiej						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Jarosław Kuchta				
	Teachers		dr inż. Jarosław Kuchta				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	12.0	0.0	18.0	0.0	0.0	30
	E-learning hours included: 0.0						
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study	SUM
	Number of study hours	30		10.0		85.0	125
Subject objectives	The aim of the course is to present advanced techniques of using selected technological platforms (e.g. .NET & Java) in the development of modern applications.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K7_K03] is ready to meet social obligations, inspire and organise activities for the social environment, initiate actions for the public interest, think and act in an entrepreneurial way		The student is able to create modern applications for solving social and business problems.		[SK5] Assessment of ability to solve problems that arise in practice		
	[K7_U03] can design, according to required specifications, and make a complex device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment		The student is able to design the user interface and the structure of the database using tools related to selected technological platforms.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		
	[K7_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, making assessment and critical analysis of the prepared software as well as a synthesis and creative interpretation of information presented with it		The student is able to use advanced tools of programming environments on selected technology platforms.		[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools		

Subject contents	1. Introduction: comparison of selected technological platforms (.NET, Java) 2. Component approach to application development 3. Graphical user interface platforms 4. Modeling and implementing data access in applications 5. Web-based applications 6. Asynchronous and multithreading in applications		
Prerequisites and co-requisites	Object oriented programming in C # or Java languages		
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	laboratory	50.0%	50.0%
	lecture	50.0%	50.0%
Recommended reading	Basic literature	1. Andrew Troelsen, Philip Japikse: Pro C# 7: With .NET and .NET Core, APRESS. 2017 2. <a href="https://docs.microsoft.com/en-gb/">https://docs.microsoft.com/en-gb/</a> 3. Antonio Goncalves: Beginning Java EE 7, APRESS, 2013 4. <a href="https://docs.oracle.com/javase/8/docs/api/">https://docs.oracle.com/javase/8/docs/api/</a>	
	Supplementary literature	brak	
	eResources addresses		
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		

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