

Subject card

Subject name and code	Technological Platforms, PG_00047724							
Field of study	Informatics							
Date of commencement of studies	October 2023		Academic year of realisation of subject			2023/2024		
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		Assessmer	nt form		exam		
Conducting unit	Department of Computer Architecture -> Faculty of Electronics, Telecommunications and Informatics							
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	Projec	ect 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 classes include 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.gNET & Java) in the development of modern applications.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification				
[K7_W41] Knows and understands, to an increased extent, the standards, production methods, life cycle and development trends of software as well as information systems and applications. [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 knows and understands the ways of functioning of the technology platforms at the level of multilayered applications	[SW1] Assessment of factual knowledge				
		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_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	The student knows and understands advanced application development mechanisms using modern technology platforms.	[SW1] Assessment of factual knowledge				
	[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	Introduction: comparison of selected technological platforms (.NET, Java) Component approach to application development Graphical user interface platforms Modeling and implementing data access in applications Web-based applications Asynchronous and multithreading in applications						
Prerequisites and co-requisites	Object oriented programming in C#	or Java languages					
Assessment methods and criteria	Subject passing criteria laboratory lecture	Passing threshold 50.0% 50.0%	Percentage of the final grade 50.0% 50.0%				
Recommended reading	Basic literature	Andrew Troelsen, Philip Japikse Core, APRESS. 2017 https://docs.microsoft.com/en-g	elsen, Philip Japikse: Pro C# 7: With .NET and .NET :SS. 2017 .microsoft.com/en-gb/ ncalves: Beginning Java EE 7, APRESS, 2013				
	Supplementary literature eResources addresses	brak Adresy na platformie eNauczanie: Platformy Technologiczne - MSU - 2023/24 - Moodle ID: 37356 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=37356					
Example issues/ example questions/ tasks being completed							

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Work placement	Not applicable

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