

Subject card

Subject name and code	Programming of Local Applications, PG_00048014							
Field of study	Informatics							
Date of commencement of studies	October 2025		Academic year of realisation of subject		2028/2029			
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	4		Language of instruction		Polish			
Semester of study	7		ECTS credits		2.0			
Learning profile	general academic profile		Assessme	nent form		assessment		
Conducting unit	Department Of Algorithms And Systems Modelling -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej							
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Manuszewski					
	Teachers		dr inż. Krzysztof Manuszewski					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	Project Semina		SUM
	Number of study hours	15.0	0.0	0.0	15.0		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		2.0		18.0		50
Subject objectives	The main goal is preparation of students for development of GUI and system part of server. In particular subject focuses on efficient system resource management and effective mulitasking implementation.							

Data wygenerowania: 26.04.2025 05:09 Strona 1 z 3

Learning outcomes	ning outcomes Course 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	Student knows methods of implementation of modern GUI	[SW1] Assessment of factual knowledge				
	[K6_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	Student is able to efficient design and implementation of modern GUI and local processing solutions	[SU1] Assessment of task fulfilment				
	[K6_W44] knows and understands, to an advanced extent, architecture, design principles and methods of hardware and software support for local and distributed information systems, including computing systems, databases, computer networks and information applications, as well as the principles of human-computer interaction, the operation and evaluation criteria of data processing, storage and transfer methods, including computational algorithms, artificial intelligence and data mining as well as standards and methods of IT systems administration, monitoring of processes and robustness to undesirable phenomena and activities	Stident knows and is able to apply selected architectural patterns	[SW1] Assessment of factual knowledge				
Subject contents	Architecture of .Net platform GUI technologies - WPF, WF Ussage of system resources						
	Multitasking vs asynchronous Memory management						
Configuration and diagnostics of applications							
	System Services						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold 50.0%	Percentage of the final grade 40.0%				
		50.0%	60.0%				

Data wygenerowania: 26.04.2025 05:09 Strona 2 z 3

Recommended reading	Basic literature	C# 5.0 IN A NUTSHELL, J. Albahari, B. Albahari			
		CLR via C#, J Ritchter			
		WPF 4 Unleashed, Nathan A.			
	Supplementary literature	MSDN			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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

Data wygenerowania: 26.04.2025 05:09 Strona 3 z 3