

Subject card

Subject name and code	Programming of Local Applications, PG_00048014							
Field of study	Informatics							
Date of commencement of studies	October 2020		Academic year of realisation of subject		2023/2024			
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	ment form		assessment		
Conducting unit	Department of Algorithms and Systems Modelling -> Faculty of Electronics, Telecommunications and Informatics							
Name and surname	Subject supervisor		dr inż. Krzysztof Manuszewski					
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Manuszewski					
			mgr inż. Tomasz Goluch					
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	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 classes include plan				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 wydruku: 02.05.2024 06:17 Strona 1 z 3

earning outcomes Course outcome		Subject outcome Method of verification				
	[K6_U41] can produce, test or evaluate software using modern programming platforms, tools, languages and paradigms of different levels, as well as use software packages supporting scientific and research processes as well as business decisionmaking processes and teamwork	Is able to implement business logic with usage of modern multitasking and asynchronous metaphors.	[SU1] Assessment of task fulfilment			
	[K6_W05] Knows and understands, to an advanced extent, methods of supporting processes and functions, specific to the field of study	Knows how to implement local it solutions	[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	Is able to efficient design and implementation of modern GUI	[SU1] Assessment of task fulfilment			
	[K6_W42] 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 cooperation with computers and computeraided teamwork	Is able to monitor and manage system resources.	[SW1] Assessment of factual knowledge			
	[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 methods of implementation of modern GUI	[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 wydruku: 02.05.2024 06:17 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: Programowanie Lokalnych Aplikacji .Net 23/24 - Moodle ID: 34095 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=34095
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

Data wydruku: 02.05.2024 06:17 Strona 3 z 3