

Subject card

Subject name and code	Advanced Computer Architectures, PG_00047895								
Field of study	Informatics								
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027			
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	3		Language of instruction			Polish Polish			
Semester of study	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Geoinformatics -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname	Subject supervisor dr inż. Jerzy D			Demkowicz					
of lecturer (lecturers)	Teachers		dr inż. Jerzy Demkowicz						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	15.0	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			Self-study		SUM		
	Number of study hours	study 30		2.0		18.0		50	
Subject objectives	The main goal of the lecture is acquaintance with advanced aspects of pipe, VLIW architectures as well as low level EFI stack.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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		Ability to create software for various ISA platforms.			[SU1] Assessment of task fulfilment			
	[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		The use of virtual machines and the implementation of any computer architecture			[SW1] Assessment of factual knowledge			

Data wygenerowania: 24.11.2024 20:15 Strona 1 z 2

Subject contents	1. ARM, MIPS, DLX processor design process						
	2. OpenSparc, Leon open VHDL technology						
	3. EFI shell - modern low level API						
	4. RAID 5. SATA, eSATA, PCI technology						
Prerequisites and co-requisites							
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade				
	Lecture	ecture 51.0%					
	Lab	51.0%	50.0%				
Recommended reading	Basic literature	Compute Architecture A Quantitative Approach , 4th.ed, 2007 - Hennessy & Patterson					
	Supplementary literature	Manuals available during the course					
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed							
Work placement	Not applicable						

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Data wygenerowania: 24.11.2024 20:15 Strona 2 z 2