

## Subject card

Subject name and code	Advanced Computer Architectures, PG_00047895							
Field of study	Informatics							
Date of commencement of studies	October 2025		Academic year of realisation of subject			2027/2028		
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		
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 -> Wydziały Politechniki Gdańskiej							
Name and surname	Subject supervisor	dr inż. Jerzy 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 inclu	uded: 0.0						
Learning activity and number of study hours	Learning activity	ctivity Participation in classes include plan				Self-study		SUM
	Number of study hours	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_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		
	[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		

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Subject contents	1. ARM, MIPS, DLX processor design process						
	OpenSparc, Leon open VHDL technology     Set is 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				
	ab 51.0% 50.0%						
	Lecture	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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