

Subject card

Operating Systems of Industrial Computers, PG_00049432							
Electronics and Telecommunications							
October 2024		Academic year of realisation of subject		2027/2028			
first-cycle studies		Subject group		Optional subject group Subject group related to scientific research in the field of study			
Full-time studies		Mode of delivery			at the university		
4		Language of instruction			Polish		
7		ECTS credits			1.0		
general academic profile		Assessment form			exam		
Department of Marine Electronic Systems -> Faculty of Electronics, Telecc				ommunications and Informatics			
Subject supervisor		dr hab. inż. Iwona Kochańska					
Teachers		dr hab. inż. Iwona Koc		:hańska			
Lesson type	Lecture	Tutorial	Laboratory	ry Project		Seminar	SUM
Number of study hours	15.0	0.0	0.0	0.0		0.0	15
E-learning hours included: 0.0							
Learning activity					Self-study		SUM
Number of study hours	15	1.0			9.0		25
The aim of the course is to provide knowledge about the architecture of operating systems used in industrial computers.							
Course outcome Subject outcome Method of verification						fication	
understands, to an a extent, the construction operating principles of components and systometries, methods ar relationships between selected specific issues.	The student knows at an advanced level the architecture of industrial computer operating systems			[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		The student knows and understands at an advanced level programming methods and techniques for operating systems used in industrial computers			[SW1] Assessment of factual knowledge		
Introduction Architecture of industrial computer operating systems POSIX standard Operating system kernel services Process Manager Resource manager QNX operating system Linux operating systems in industrial computers MS Windows operating systems in industrial computers							
	first-cycle studies Full-time studies 4 7 general academic production Subject supervisor Teachers Lesson type Number of study hours E-learning hours included a subject supervisor Teachers Learning activity Number of study hours E-learning hours included a subject supervisor Teachers Course out [K6_W03] Knows and understands, to an anderstands, to an anderstands, to an anderstands and subject supervisor sup	first-cycle studies Full-time studies 4 7 general academic profile Department of Marine Electronic Systems using computers or systems using computer or systems using computers or systems using computers or systems using computers or systems using computers or such devices Introduction Introduction	first-cycle studies Full-time studies Full-time studies Full-time studies Mode of detail Language of ECTS cred general academic profile Department of Marine Electronic Systems -> Facul Subject supervisor Teachers Department of Marine Electronic Systems -> Facul Subject supervisor Teachers Lesson type Lecture Number of study hours E-learning hours included: 0.0 Learning activity Participation in didactic classes included in study plan Number of study hours The aim of the course is to provide knowledge aboundustrial computers. Course outcome [K6_W03] Knows and understands, to an advanced extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum [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 programming devices or controllers using microprocessors or systems specific to the field of study, and organisation of systems using computers or such devices Introduction Architecture of industrial computer operating system kernel services Process Manager RoNX operating systems in industrial computers	October 2024 first-cycle studies Full-time studies Full-time studies Mode of delivery Language of instruction ECTS credits general academic profile Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Teachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Teachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Teachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Treachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Treachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Treachers Department of Marine Electronic Systems -> Faculty of Electronic Subject supervisor Treachers Department of Marine Electronic Systems -> Faculty of Electronic Systems in 12. 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Iwona Kochańska Lesson type Lecture Intuorial Lesson type Lecture Intuorial Leboratory Project Number of study Number of study Number of study Number of study Nours Interior of the course is to provide knowledge about the architecture of operating industrial computers. Course outcome Interior of the course is to provide knowledge about the architecture of operating industrial computers. Course outcome Interior of the course is to provide knowledge about the architecture of operating industrial computers. Course outcome Interior of the course is to provide knowledge about the architecture of operating industrial computers. The student knows at an advanced extent, the construction and operating principles of computer software development or programming and the principles of computer software development or programming and the principles of computer software development or programming and the principles of computer software development or programming devices or controllers using microprocessors or programming devices or controllers using microprocessors or programming devices or controllers using microprocessors or systems specific to the field of study, and organisation of systems using computers or such devices The student knows and understands at an advanced level programming methods and techniques of programming and the principles of computer software development or programming methods and techniques of programming and the principles of computer software development or systems specific to the field of study, and organisation of systems in industrial comput	Cotober 2024 Academic year of realisation of subject Coptional subject group Coptional subject group Coptional subject group Coptional subject group relate research in the field Full-time studies Mode of delivery at the university A

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Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade		
and criteria	Midterm colloquium	60.0%	100.0%		
Recommended reading	Basic literature	A. S. Tanenbaum, "Modern Operating Systems. Fourth Edition", Global Edition			
	Supplementary literature	Tammy Noergaard, Embedded Systems Architecture: A Comprehensive Guide for Engineers and Programmers, Newnes, Elsevier 2005			
	eResources addresses	Adresy na platformie eNauczanie:			
Example issues/ example questions/ tasks being completed					
Work placement	Not applicable				

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