

Subject card

Subject name and code	Operating Systems of Industrial Computers, PG_00049432								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2024		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	4		Language of instruction			Polish			
Semester of study	7		ECTS credits			1.0			
Learning profile	general academic profile		Assessment form			exam			
Conducting unit	Department of Marine	stems -> Faculty of Electronics, Telec			communications and Informatics				
Name and surname	Subject supervisor		dr hab. inż. Iwona Kochańska						
of lecturer (lecturers)	Teachers		dr hab. inż. Iwona Kochańska						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	ry Project		Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	0.0	0.0		0.0	15	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation ir classes includ plan				Self-study		SUM	
	Number of study 15 hours			1.0		9.0		25	
Subject objectives	The aim of the course is to provide knowledge about the architecture of operating systems used in industrial computers.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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		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			
Subject contents Prerequisites and co-requisites	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								
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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", Edition			
	Supplementary literature	Tammy Noergaard, Embedded Systems Architecture: A Comprehensive Guide for Engineers and Programmers, Newne Elsevier 2005		
	eResources addresses	Adresy na platformie eNauczanie:		
Example issues/ example questions/ tasks being completed				
Work placement	Not applicable			

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