

Subject card

Electronics and Telectronics and Telectr	communication	S								
October 2025			Electronics and Telecommunications							
October 2025		Academic year of realisation of subject			2028/2029					
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		·			Polish					
7		ECTS credits			1.0					
general academic profile		Assessment form			exam					
Department Of Signals And Systems -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej						matics ->				
Subject supervisor		dr hab. inż. Iwona Kochańska								
Teachers	Teachers dr hab. inż. Iwona Kochańsk			ka						
Lesson type	Lecture	Tutorial	Laboratory		t	Seminar	SUM			
hours	15.0	0.0	0.0	0.0	0.0		15			
			i		i .					
Learning activity						udy	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					
[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 [K6_W03] knows and understands, to an advanced		understands at an advanced level programming methods and techniques for operating systems used in industrial computers The student knows at an advanced level the architecture of			[SW1] Assessment of factual knowledge [SW1] Assessment of factual knowledge					
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 ents Introduction Architecture of industrial computer operating systems POSIX standard Operating system kernel services Process Manager Resource manager QNX operating system gystems systems										
	general academic production programming devices and techniques of prand the principles of software developmen programming device controllers using mic or programmable eles ystems specific to the study, and organisatis systems using comp devices [K6_W03] knows and understands, to an and extent, the construction or programming device controllers using mic or programmable eles ystems using comp devices [K6_W03] knows and understands, to an and extent, the construction operating principles of components and systems using components and systems using components and systems are systems and systems and systems are systems.	general academic profile Department Of Signals And System Wydziały Politechniki Gdańskiej Subject supervisor Teachers Lesson type Lecture Number of study hours E-learning hours included: 0.0 Learning activity Participation i classes included plan Number of study hours The aim of the course is to provide industrial computers. Course outcome [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 [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 Introduction Architecture of industrial computer of POSIX standard Operating system kernel services Process Manager Resource manager QNX operating systems in industrial conversed in the services of components and systems in industrial conversed in the curriculum introduction architecture of industrial computer of POSIX standard Operating system kernel services Process Manager Resource manager QNX operating systems in industrial conversed in the curriculum industrial services in the c	4 Language of general academic profile Assessmer Department Of Signals And Systems -> Faculty Of Wydziały Politechniki Gdańskiej Subject supervisor dr hab. inż. Iw Teachers dr hab. inż. Iw Teach	4 Language of instructio 7 ECTS credits general academic profile Assessment form Department Of Signals And Systems -> Faculty Of Electronics Te Wydziały Politechniki Gdańskiej Subject supervisor dr hab. inż. Iwona Kochańsk Teachers dr hab. inż. Iwona Kochańsk Lesson type Lecture Tutorial Laboratory 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 about the architect industrial computers. Course outcome Subject outcome [K6_W04] knows and understands, to an advanced extent, 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 specific to the field of study, and organisation of systems using computers or such devices [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 Introduction Architecture of industrial computer operating systems POSIX standard Operating system kernel services Process Manager Resource manager QNX operating system	4 Language of instruction 7 ECTS credits general academic profile Assessment form Department Of Signals And Systems -> Faculty Of Electronics Telecomm Wydzialy Politechniki Gdańskiej Subject supervisor dr hab. inż. Iwona Kochańska Lesson type Lecture Tutorial Laboratory Project 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 about the architecture of o industrial computers. Course outcome Subject outcome [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 [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 Introduction Introduction Introduction Assessment form Assessment form Assessment form dr hab. inż. Iwona Kochańska Daoratory Projec Number of study inż. 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Course outcome Subject outcome Interview of sunderstands, to an advanced extent, the principles, methods and techniques of programming and the principles or computer software development or programming methods and techniques of programming methods and sudderstands, 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 Introduction Architecture of industrial computer operating systems in industrial computers			

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Prerequisites and co-requisites					
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 Operation	perating Systems. Fourth Edition", Global		
	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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