

## GDAŃSK UNIVERSITY

## Subject card

Subject name and code	Computer Networks in Robotics, PG_00038330								
Field of study	Automation, Robotics and Control Systems								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2024/2025			
Education level	second-cycle studies		Subject group			Optional subject group Subject group related to scientific research in the field of study			
Mode of study	Part-time studies		Mode of delivery			at the university			
Year of study	2		Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Mecha	atronics and Hig	gh Voltage Eng	ineering -> Fa	culty of	Electric	al and Contro	I Engineering	
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		prof. dr hab. inż. Grzegorz Redlarski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	10.0	0.0	10.0	0.0		0.0	20	
	E-learning hours included: 0.0								
	Adresy na platformie eNauczanie:								
Learning activity and number of study hours	Learning activity	ing activity Participation ir classes includ		Participation in consultation hours		Self-study		SUM	
	Number of study hours	umber of study 20		7.0		48.0		75	
Subject objectives	The aim of the course is an acquisition of the knowledge skills and competences in the field of design, administration and maintenance of computer networks used, among others, in industrial distributed systems.								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
						[SW2] Assessment of knowledge contained in presentation			
	K7_U07		The student is able to use specialized computer tools supporting the solution of a specific task			[SU1] Assessment of task fulfilment			
	K7_K02		The student has the ability to perform tasks that are part of a complex system			[SK2] Assessment of progress of work			
Subject contents									
	2. The physical and logical topologies of computer networks 4. Network and subnetworks								
	3. Power distributed computer systems								
	4. The tools to the support of the process of computer systems designing								
Prerequisites and co-requisites	The basic knowledge	of numeral sys	stems (binary, o	decimal, hexal	and oct	al).			

Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Test - lecture part	60.0%	50.0%				
	Laboratory report	60.0%	50.0%				
Recommended reading	Basic literature [1] Cisco Networking Academy program, CCNA 1 and 2 Companie Guide, 3 <sup>rd</sup> Edition. Cisco Systems Inc., 2004.						
	Supplementary literature [1] Cisco Networking Academy program CCNA 3 and 4 Compa Guide, 3 <sup>rd</sup> Edition. Cisco Systems Inc., 2004.						
	eResources addresses						
Example issues/ example questions/ tasks being completed							
	1. Similarities and differences between models: OSI and TCP/IP						
	<ol> <li>Basic networking devices - the essence of an action</li> <li>The physical topology of computer networks</li> </ol>						
	<ul><li>4. The logical topology of computer networks</li><li>5. The essence of the division of the networks into subnetworks</li></ul>						
Work placement	Not applicable						