

Subject card

Subject name and code	Computer Networks in Robotics, PG_00038330								
Field of study	Automation, Robotics and Control Systems								
Date of commencement of	October 2022 Academic year of 2023/2024								
studies	00,000, 2022		realisation of subject			2023/2024			
Education level	second-cycle studies		Subject group			Option	Optional subject group		
						Subject group related to scientific			
Made of study	Part-time studies		Mada of delivery			research in the field of study at the university			
Mode of study Year of study	2		Mode of delivery Language of instruction			Polish			
Semester of study	3		ECTS credits			3.0			
•	general academic profile					assessment			
Learning profile			Assessment form						
Conducting unit	Department of Mechatronics and High Voltage Engineering -> Faculty of Electrical and Control Engineering						ol Engineering		
Name and surname of lecturer (lecturers)	Subject supervisor Teachers		prof. dr hab. ii	nż. Grzegorz R	edlarsk	l			
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Pr		Projec	t	Seminar	SUM	
of instruction	Number of study	10.0	0.0	10.0	0.0		0.0	20	
	hours E-learning hours incl	nqeq. 0 0							
Learning activity	Learning activity Participation in		n didactic	Participation i	n	Self-st	Self-study SUM		
and number of study hours		classes includ		consultation hours		. ,			
	Number of study hours	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			
	K7_K02		The student has the ability to perform tasks that are part of a complex system			[SK2] Assessment of progress of work			
	K7_W11		The student has knowledge of the design, administration and maintenance of computer networks used - among others - in industrial distributed systems			[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			
Subject contents	1. Models of the computer networks 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 The basic knowledge of numeral systems (binary, decimal, hexal and octal).								
Prerequisites and co-requisites	The basic knowledge	e of numeral sys	stems (binary, o	decimal, hexal	and oct	al).			

Data wydruku: 05.05.2024 10:29 Strona 1 z 2

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%			
	Laboratory report		11.11.			
Recommended reading	Basic literature	[1] Cisco Networking Academy program, CCNA 1 and 2 Companion Guide, 3 rd Edition. Cisco Systems Inc., 2004.				
	Supplementary literature	[1] Cisco Networking Academy program CCNA 3 and 4 Companion Guide, 3 rd Edition. Cisco Systems Inc., 2004.				
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	1. Similarities and differences between models: OSI and TCP/IP 2. Basic networking devices - the essence of an action 3. The physical topology of computer networks 4. The logical topology of computer networks 5. The essence of the division of the networks into subnetworks					
Work placement	Not applicable					

Data wydruku: 05.05.2024 10:29 Strona 2 z 2