

Subject card

Subject name and code	Computer Networks Administration, PG_00047956								
Field of study	Informatics								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2025/2026			
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		4.0				
Learning profile	general academic pro	ofile	Assessment form			exam			
Conducting unit	Department Of Comp Wydziały Politechnik	outer Communi i Gdańskiej	ications -> Fac	ulty Of Electror	nics Tele	ecomm	unications An	d Informatics ->	
Name and surname	Subject supervisor		dr inż. Wojciech Gumiński						
of lecturer (lecturers)	Teachers		dr inż. Wojciech Gumiński						
			dr inż. Krzysztof Gierłowski						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	roject Seminar SUM			
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours included: 0.0								
Learning activity and number of study hours	Learning activity	Participation in didactic classes included in study plan		Participation in consultation hours		Self-study		SUM	
	Number of study hours	45		4.0		51.0		100	
Subject objectives	The main objective of the course is to provide students with knowledge about the principles of administration of computer networks and to gain by them practical skills in the field of network monitoring and implementation of solutions which increase network reliability and network security.								

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K6_U03 can design, according to required specifications, and make a simple device, facility, system or carry out a process, specific to the field of study, using suitable methods, techniques, tools and materials, following engineering standards and norms, applying technologies specific to the field of study and experience gained in the professional engineering environment K6_W43 Knows and understands, to an advanced extent, standards and methods of IT systems administration, monitoring of processes occurring in them and immunising them to undesirable phenomena and activities K6_W42 Knows and understands, to an advanced extent, architecture, design principles and methods of principles and methods of orachiving data in the network. Student manages permissions. Student uses tools to monitor the network. Students choose the method of network inventory. Students choose the method of administrator. Student identifies the tasks of administrator. Student compares the methods of administrator. Student compares the methods of administrator. Student compares the methods of archiving data in the network. Student compares the methods of archiving data in the network. Student compares the methods of archiving data in the network.	ual							
understands, to an advanced extent, standards and methods of IT systems administration, monitoring of processes occurring in them and immunising them to undesirable phenomena and activities [K6_W42] Knows and understands, to an advanced extent, architecture, design Student uses tools to monitor the network. Students choose the method of network inventory. Student identifies the tasks of administrator. Student uses tools to monitor the network. Students choose the method of network inventory. [SW1] Assessment of facture, knowledge								
understands, to an advanced administrator. extent, architecture, design Student compares the methods of	lau							
hardware and software support for local and distributed information systems, including computing systems, databases, computer networks and information applications, as well as the principles of human cooperation with computers and computer-aided teamwork								
programming methods and techniques as well as select and select and student uses tools to monitor the network. Student uses tools to monitor the network.	[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task							
network goals 4. Network addresses and names politics 5. Routes and network protocols selection 6 Network flow monitoring and shaping 7. Network flow counting and optimization 8. Network services administration (DHCP, DNS, WINS) 9. WAN access management (NAT, PAT, Proxy) 10. Network seadministration (WWW, FTP, e-mail) 11. Network resource sharing 12. Domain administration 13. Us hardware authentication. Network privileges. 14. Remote access 15. Network security. Intruder	indentyfication. 16. Network failures diagnosis and fixing 17. Network evolution, network documentation and							
Prerequisites and co-requisites								
Assessment methods Subject passing criteria Passing threshold Percentage of the final	grade							
and criteria Written examination 50.0% 40.0%								
Practical exercise 50.0% 60.0%								
Recommended reading M. Sportack, T. Northrup; Networking Essentials Unleashed; Sa Publishing 2006 J. Scott Haugdahl; Network Analysis and Troubleshooting; Add Wesley Professional 1999								
Supplementary literature No requirements	No requirements							
eResources addresses Adresy na platformie eNauczanie:								
Example issues/ example questions/ tasks being completed								
Work placement Not applicable								

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