

## Subject card

Subject name and code	Computer Networks - laboratory, PG_00048819								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2023		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	3		Language of instruction			Polish			
Semester of study	6		ECTS credits			2.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Comp	Department of Computer Communications -> Faculty of Electronics, Tel				ecommunications and Informatics			
Name and surname	Subject supervisor		dr inż. Krzysz						
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Nowicki						
Lesson types and methods	Lesson type	Lecture	Tutorial Laboratory Project Sem		Seminar	SUM			
of instruction	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	E-learning hours inclu								
Learning activity and number of study hours	Learning activity	Participation i classes included		Participation in consultation hours		Self-study		SUM	
	Number of study hours	30		2.0		18.0		50	
Subject objectives	Familiarize students with the actual hardware solutions, networking devices diagnostic methods, principles of management of the networks, ensuring security of computer networks								
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[K6_W35] Knows the concepts of the technique of signal transmission, operation of telecommunications networks and multimedia services and the rules for providing them		The student knows the concepts of IPv4 network diagnostics, network equipment management, VLAN, Static and dynamic routing, datagram filtering, network security and principles of wireless networks			[SW1] Assessment of factual knowledge			
	[K6_U31] can identify telecommunications network architectures, differentiates their areas and functional elements, evaluates the quality of service delivery, calculates parameters of functional elements		between areas of computer			[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools			
Subject contents	IPv4 Network Diagno IPv6 Management of Netw Virtual LANs (VLANs Static Routing Dynamic Routing Cisco ACL Firewall filtering data WiFi 802.11 Wireless Modes of access poir Network security of IE	ork Hardware ) grams Networks nts							

Data wydruku: 19.05.2024 17:17 Strona 1 z 2

Prerequisites and co-requisites	Lecture "Computer Networks"					
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade			
and criteria	Practical exercises - checking + rating implementation exercises	50.0%	100.0%			
Recommended reading	Basic literature	Nowicki K., Światowiak J.: Protokoły IPv6, PG, 2002  Nowicki K., Woźniak J.: Przewodowe i bezprzewodowe sieci LAN, OW PW 20				
	Supplementary literature Nowicki K., Uhl T. : Monitorowanie i bezpieczeństwo sieci komputerowych, WN AMG, 2016					
	eResources addresses	Adresy na platformie eNauczanie:				
Example issues/ example questions/ tasks being completed	Build a network of reliable Build a network is a safe					
Work placement	Not applicable					

Data wydruku: 19.05.2024 17:17 Strona 2 z 2