

Subject card

Subject name and code	Computer Networks - laboratory, PG_00048819								
Field of study	Electronics and Telecommunications								
Date of commencement of studies	October 2022		Academic year of realisation of subject			2024/2025			
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 Computer Communications -> Faculty of Electronics, Telecommunications and Informatics								
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Krzysztof Nowicki							
	Teachers		Zenon Werbowy						
			dr inż. Michał Hoeft						
			mgr inż. Jakub Grochowski						
			dr inż. Krzysztof Nowicki						
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
	Number of study hours	0.0	0.0	30.0	0.0		0.0	30	
	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	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_U31] can identify telecommunications network architectures, differentiates their areas and functional elements, evaluates the quality of service delivery, calculates parameters of functional elements					[SU4] Assessment of ability to use methods and tools [SU2] Assessment of ability to analyse information			
	[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			

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Subject contents	IPv6 Management of Network Hardware Virtual LANs (VLANs) Static Routing Dynamic Routing Cisco ACL Firewall filtering datagrams WiFi 802.11 Wireless Networks Modes of access points Network security of IEEE 802.11				
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	Dedicated auxiliary materials - scripts 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: Sieci komputerowe EiT 2024/25 - Moodle ID: 41919 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=41919			
Example issues/ example questions/ tasks being completed	Build a network of reliable Build a network is a safe				
Work placement	Not applicable				

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