

Subject card

Subject name and code	Computer Networks - laboratory, PG_00048819							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	October 2021		Academic year of realisation of subject			2023/2024		
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		dr inż. Krzysztof Nowicki					
			dr inż. Michał Hoeft					
			mgr inż. Jakub Grochowski					
			dr inż. Krzysztof Gierłowski					
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 i classes include 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_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					[SU2] Assessment of ability to analyse information [SU4] Assessment of ability to use methods and tools		

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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 and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade			
	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				
	Nowicki K., Uhl T.: Monitorowanie i bezpieczeństwo sieci komputerowych, WN AMG, 2016					
	eResources addresses	Resources 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					

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