

Subject card

Subject name and code	Computer Networks - laboratory, PG_00048819							
Field of study	Electronics and Telecommunications							
Date of commencement of studies	October 2024		Academic year of realisation of subject			2026/2027		
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	ations -> Facu	ations -> Faculty of Electronics, Telecommunications and Informatics					
Name and surname	Subject supervisor		dr inż. Krzysz	tof Nowicki				
of lecturer (lecturers)	Teachers		dr inż. Krzysztof Nowicki					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Project Seminar		Seminar	SUM
of instruction	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 including		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		The student is able to distinguish between areas of computer networks operation and to design, configure and evaluate the correctness of computer networks operation			[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		
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						

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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:				
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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