



Subject card

Subject name and code	Computer Networks - laboratory, PG_00048819						
Field of study	Electronics and Telecommunications						
Date of commencement of studies	October 2026	Academic year of realisation of subject			2028/2029		
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 -> Faculties of Gdańsk University of Technology						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Krzysztof Nowicki				
	Teachers		dr inż. Krzysztof Nowicki				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	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		
Subject contents	Course content – laboratory IPv4 Network Diagnostics, 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
	Supplementary literature	Nowicki K., Uhl T. : Monitorowanie i bezpieczeństwo sieci komputerowych, WN AMG, 2016
	eResources addresses	
Example issues/ example questions/ tasks being completed	Build a network of reliable Build a network is a safe	
Practical activities within the subject	Not applicable	

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