GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Computer networks - laboratories, PG_00045323
Field of study	Data Engineering

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 Computer Communications -> Faculty of Electronics, Telecommunications and Informatics

Name and surname of lecturer (lecturers)	Subject supervisor	mgr inż. Jakub Grochowski
	Teachers	mgr inż. Jakub Grochowski
		dr hab. inż. Artur Tomaszewski

Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	0.0	0.0	15.0	0.0	0.0	15
	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	15	4.0	31.0	50

Subject objectives	Acquiring the skills to design, build and configure computer networks.Demonstration of skills to identify and analyze selected protocols and mechanisms of LAN and WAN networks

Learning outcomes	Course outcome	Subject outcome	Method of verification
	[K6_U02] prepares and presents convincingly professional presentations of the results of undertaken activities, with their advanced interpretation	Student designs, builds and configures a computer network and analyzes the correctness of its work	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
	[K6_U06] acquires new knowledge, planning its own development in aiming at achieving defined goals	Student is able to configure network devices and systems using switch and router software	[SU1] Assessment of task fulfilment [SU4] Assessment of ability to use methods and tools
	[K6_W02] demonstrates advanced preparation in methods and techniques for formulating and solving problems	The student demonstrates knowledge of the elements included in the network (switches, routers)	[SW1] Assessment of factual knowledge

Subject contents	Lab. 1. Network Management 2. Mechanisms of application communication 3. Static and Dynamic Routing 4. 802.11 wireless network configuration 5. IP Network Diagnostics 6. Network monitoring
Prerequisites and co-requisites	

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	lab.	50.0%	100.0%

Recommended reading	Basic literature	Scripts and didactic powers for specific laboratory exercises
		Nowicki K.: Monitorowanie i bezpieczeństwo sieci komputerowych, WN AM Szczecin, 2016
	Supplementary literature	Nowicki K., Woźniak J.: Przewodowe i bezprzewodowe sieci LAN, OW PW 2002
		Nowicki K.: Ethernet - sieci, mechanizmy, Infotech
	eResources addresses	Adresy na platformie eNauczanie:
Example issues/ example questions/ tasks being completed		Build a reliable network
		Build a secure network
		Build an efficient network
Work placement	Not applicable	

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