



Subject card

Subject name and code	Computer networks - laboratories, PG_00045323						
Field of study	Data Engineering, Data Engineering						
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	mgr inż. Jakub Grochowski					
	Teachers	mgr inż. Jakub Grochowski dr hab. inż. Artur Tomaszewski					
Lesson types	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	Course content – laboratory 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 (shared via the eNauczenie platform)
	Supplementary literature	Tannenbaum A.: Computer Networks. Prentice Hall Stallings W.: High Speed Networks and Internets. Prentice Hall
	eResources addresses	
Example issues/ example questions/ tasks being completed	<p>Build a reliable network</p> <p>Build a secure network</p> <p>Build an efficient network</p>	
Practical activities within the subject	Not applicable	

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