

## 。 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 2025		Academic year of realisation of subject			2027	2027/2028		
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			asses	assessment		
Conducting unit	Department Of Computer Communications -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej						d Informatics ->		
Name and surname	Subject supervisor		mgr inż. Jakub Grochowski						
of lecturer (lecturers)	Teachers		mgr inż. Jakub Grochowski dr hab. inż. Artur Tomaszewski						
	Loopon turc	Looturo	Tutoric	Loboratory	Drois	.+	Seminar	SUM	
Lesson types and methods of instruction	Lesson type Number of study	Lecture 0.0	Tutorial 0.0	Laboratory 15.0	Projec	:[	0.0	15	
	hours								
La construcción d'altra	E-learning hours included: 0.0					SUM			
Learning activity and number of study hours	Learning activity	activity Participation in didaction classes included in stuppian		Participation in consultation hours		Self-study SUM		SUM	
	Number of study hours	15		4.0		31.0		50	
Subject objectives	Acquiring the skills to analyze selected prot					nonstra	ation of skills t	o identify and	
Learning outcomes	Course outcome		Subject outcome			Method of verification			
	[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				
	[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			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
	[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			[SU4] Assessment of ability to use methods and tools [SU1] Assessment of task fulfilment			
Subject contents	Lab.								
	<ol> <li>Network Management</li> <li>Mechanisms of application communication</li> <li>Static and Dynamic Routing</li> <li>802.11 wireless network configuration</li> <li>IP Network Diagnostics</li> <li>Network monitoring</li> </ol>								
Prerequisites and co-requisites		3							
Assessment methods	Subject passin	Passing threshold			Percentage of the final grade				
and criteria	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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