

Subject card

Subject name and code	Computer networks - laboratories, PG_00045323								
Field of study	Data Engineering								
Date of commencement of studies	October 2023		Academic year of realisation of subject			2025/2026			
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	Department of Computer Communications -> Faculty of Electronics, Telecommunications and Informatics						Informatics	
Name and surname	Subject supervisor	mgr inż. Jakub Grochowski							
of lecturer (lecturers)	Teachers		mgr inż. Jakub Grochowski						
			dr hab. inż. A	/ski					
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	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	earning activity Participation in classes includ plan				Self-study S		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_W02] Knows and understands the standards of network management, architecture, technologies and services of telecommunications networks. Knows the main protocols of packet networks, understands the operation of local networks and network connection rules.		The student demonstrates knowledge of the elements included in the network (switches, routers)			[SW1] Assessment of factual knowledge			
	[K6_U02] designs, analyses correctness and creates functional specification of IT systems, selects appropriate measures, creates quality models, prepares and assesses their design documentation.		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] Independently solves complex engineering tasks using literature, materials and devices, prepares extensive documentation of the developed solution using appropriate description techniques.		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			

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Subject contents	Lab.						
	Network Management Mechanisms of application communication Static and Dynamic Routing 802.11 wireless network configuration 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 komputerow AM Szczecin, 2016						
	Nowicki K., Woźniak J.: Przewodow PW 2002 Nowicki K.: Ethernet - sieci, mechan		·				
	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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