



## Subject card

Subject name and code	Corporate Networks, PG_00047899						
Field of study	Informatics						
Date of commencement of studies	October 2021		Academic year of realisation of subject		2023/2024		
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		3.0		
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		dr inż. Wojciech Gumiński				
	Teachers		prof. dr hab. inż. Tibor Cinkler				
			dr inż. Wojciech Gumiński				
Lesson types and methods of instruction	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	0.0	15.0	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		5.0		40.0	75
Subject objectives	The objective of the course is to familiarize students with the principles of design, building and maintaining corporate networks.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[K6_W03] Knows and understands, to an advanced extent, the construction and operating principles of components and systems related to the field of study, including theories, methods and complex relationships between them and selected specific issues - appropriate for the curriculum		Student lists the methods of computer network remote access. Student lists threats in computer networks.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
	[K6_W04] Knows and understands, to an advanced extent, the principles, methods and techniques of programming and the principles of computer software development or programming devices or controllers using microprocessors or programmable elements or systems specific to the field of study, and organisation of systems using computers or such devices		Student distinguishes between LAN cabling standards. Student makes plan of names and addresses of devices. Student uses tools to monitoring the computer networks.		[SW1] Assessment of factual knowledge [SW2] Assessment of knowledge contained in presentation		
Subject contents	Types of corporate networks. Opportunities for small, medium and big enterprises. Design of corporate networks. Hierarchical model of logical architecture of corporate networks. Virtual private networks. Corporate IP Telephony. Electronic data interchange. Tele and video conferencing. Remote training. Security issues. Customer relationships management. Groupware and Workflow. Enterprise applications integration. Evolution of cocepts of corporate networks.						
Prerequisites and co-requisites							

Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	Written exam	50.0%	40.0%
	project	50.0%	60.0%
Recommended reading	Basic literature	Lecture notes	
	Supplementary literature	Oppenheimer P.: Projektowanie sieci metodą Top-Down, Mikom, Warszawa 2007 r.  Serafin M: Sieci VPN. Zdalna praca i bezpieczeństwo danych, Helion, Gliwice 2008 r.  Tanenbaum A. S.: Sieci komputerowe (wyd. 4) , Helion, Gliwice 2004 r.  Pr. Zbiorowa: Vademecum Teleinformatyka, tom II, IDG, Warszawa 2002 r.  Pr. Zbiorowa: Vademecum Teleinformatyka, tom III, IDG, Warszawa 2004 r.  Wajda K. (red.): Wybrane zagadnienia budowy i eksploatacji sieci korporacyjnych, Wydawnictwo Fundacji Postępu Telekomunikacji, Kraków 1999 r.	
	eResources addresses	Adresy na platformie eNauczanie: Sieci korporacyjne 2024 - Moodle ID: 33393 <a href="https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33393">https://enauczanie.pg.edu.pl/moodle/course/view.php?id=33393</a>	
Example issues/ example questions/ tasks being completed			
Work placement	Not applicable		