GDAŃSK UNIVERSITY OF TECHNOLOGY

Subject card

Subject name and code	Corporate Networks, PG_00047899		
Field of study	Informatics		
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	3.0
Learning profile	general academic profile	Assessment form	assessment
Conducting unit	Department Of Computer Communications -> Faculty Of Electronics Telecommunications And Informatics -> Wydziały Politechniki Gdańskiej		
Name and surname of lecturer (lecturers)	Subject supervisor	dr inż. Wojciech Gumiński	
	Teachers	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_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.	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge
[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.	[SW2] Assessment of knowledge contained in presentation [SW1] Assessment of factual knowledge

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

<table>
<tr><td>Assessment methods and criteria</td><td colspan="2"><table>
<tr><th>Subject passing criteria</th><th>Passing threshold</th><th>Percentage of the final grade</th></tr>
<tr><td>project</td><td>50.0%</td><td>60.0%</td></tr>
<tr><td>Written exam</td><td>50.0%</td><td>40.0%</td></tr>
</table></td></tr>
<tr><td rowspan="2">Recommended reading</td><td>Basic literature</td><td>Lecture notes</td></tr>
<tr><td>Supplementary literature</td><td>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.</td></tr>
<tr><td colspan="2">eResources addresses</td><td>Adresy na platformie eNauczanie:</td></tr>
<tr><td>Example issues/ example questions/ tasks being completed</td><td colspan="2"></td></tr>
<tr><td>Work placement</td><td colspan="2">Not applicable</td></tr>
</table>

Document generated electronically. Does not require a seal or signature.