

Subject card

Subject name and code	Network Operating Systems, PG_00048056							
Field of study	Informatics							
Date of commencement of studies	February 2026		Academic year of realisation of subject		2025/2026			
Education level	second-cycle studies		Subject group		Optional subject group Specialty 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	1		Language of instruction		Polish			
Semester of study	1		ECTS credits		2.0			
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	Projec	Project Seminar		SUM
	Number of study hours	15.0	0.0	15.0	0.0		0.0	30
	E-learning hours included: 0.0							
Learning activity and number of study hours	Learning activity Participation in classes including plan				Self-study SUI		SUM	
	Number of study hours	30		4.0		16.0		50
Subject objectives	The main objective of the course is to provide students with the operation, construction and configuration of network operating systems.							

Data wygenerowania: 26.04.2025 09:41 Strona 1 z 3

Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[K7_W03] knows and understands, to an increased 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 classifies network services.	[SW1] Assessment of factual knowledge	
	[K7_U09] can carry out a critical analysis of the functioning of existing technical solutions and assess these solutions, as well as apply experience related to the maintenance of advanced technical systems, devices and facilities typical for the field of studies, gained in the professional engineering environment	Student get knowledge of administration of directory services.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject	
	[K7_U12] is able, to an increased extent, to analyze the operation of components and systems related to the field of study, as well as to measure their parameters and study their technical characteristics, and to plan and carry out experiments related to the field of study, including computer simulations, interpret the obtained results and draw conclusions	Student determines the configuration of network services.	[SU1] Assessment of task fulfilment [SU3] Assessment of ability to use knowledge gained from the subject	
	[K7_W101] is able to make an indepth identification of key objects and phenomena related to the field of study, as well as theories that describe them and applicable analytical and design methods	Student lists and describes the key services of network operating systems.	[SW1] Assessment of factual knowledge	

Data wygenerowania: 26.04.2025 09:41 Strona 2 z 3

Subject contents	Network operating systems classification						
	 Network operating systems tasks TCP/IP software in NOS structure Internet protocol - IP Transmission Control Protocol - TCP state diagram Network communication using sockets Network services Network services configuration in Windows Server, Linux and Netware 						
	 9. Novell Directory Services - eDirectory 10. Windows domain 11. Active Directory 12. Remote access 13. Network shares and network printing 14. Security of network operating systems 15. Network operating systems administration tools 						
Prerequisites and co-requisites							
Assessment methods	Subject passing criteria	Passing threshold	Percentage of the final grade				
and criteria	Midterm colloquium	50.0%	50.0%				
	Practical exercise	50.0%	40.0%				
	Activity/presence	0.0%	10.0%				
Recommended reading	Basic literature	Kirch O., Linux - podręcznik administratora sieci, O"Reilly 2000. Morimoto M., Windows Serwer 2003. Księga eksperta., Helion 2004.					
	Supplementary literature Moncur M., Netware 5: administracja i konfiguracja systemu, Mikom 1999. A. Tanenbaum, Modern Operating Systems. A. Tananbaum, Computer Networks.						
	eResources addresses	Adresy na platformie eNauczanie:					
Example issues/ example questions/ tasks being completed	Configuration of severs for DHCP, DNS, HTTP, FTP services and ProxyHTTP as application server.						
	Configuration of Group Policies Objects in Active Directory.						
Work placement	Not applicable						

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Data wygenerowania: 26.04.2025 09:41 Strona 3 z 3