

## Subject card

Subject name and code	Network Operating Systems, PG_00048056							
Field of study	Informatics							
Date of commencement of studies	February 2025		Academic year of realisation of subject		2024/2025			
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							
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	oject 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 didactic classes included in study plan		Participation in consultation hours		Self-study		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.							

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Learning outcomes	Course outcome	Subject outcome	Method of verification	
	[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	
	[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.	[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment	
	[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.	[SU3] Assessment of ability to use knowledge gained from the subject [SU1] Assessment of task fulfilment	
	[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	

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Subject contents	Network operating systems classification						
	Network operating systems tasks						
	3. TCP/IP software in NOS structure						
	4. Internet protocol - IP						
	5. Transmission Control Protocol - 7	Transmission Control Protocol - TCP state diagram					
	6. Network communication using sockets						
	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	Dansing threshold	Dercentage of the final grade				
and criteria	Subject passing criteria Activity/presence	Passing threshold 0.0%	Percentage of the final grade 10.0%				
	Practical exercise	50.0%	40.0%				
	Midterm colloquium	50.0%	50.0%				
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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