

Subject card

Subject name and code	Operating Systems, PG_00155074						
Field of study	Information Science and Econometrics						
Date of commencement of studies	October 2024		Academic year of realisation of subject		2024/2025		
Education level	undergraduate studies		Subject group		Obligatory subject group 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		7.0		
Learning profile	academic		Assessment form				
Conducting unit	Faculty of Management						
Name and surname of lecturer (lecturers)	Subject supervisor		dr inż. Przemysław Jatkiewicz				
	Teachers		dr inż. Przemysław Jatkiewicz mgr inż. Dawid Jereczek				
Lesson types	Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
	Number of study hours	15.0	0.0	60.0	0.0	0.0	75
	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	75		20.0		80.0	175
Subject objectives	To familiarise students with operating systems and the roles they can play in a company's IT infrastructure.						
Learning outcomes	Course outcome		Subject outcome		Method of verification		
	[IiEL3_U02] The student is able to acquire basic information about economic processes and phenomena by direct observation, planned experiment or database queries, and collect and process it using modern information technology tools.		The student is able to acquire and implement the functionalities of the Windows and Linux operating systems.		[SU4] test/exam - oral or written [SU5] implementation of a problem task		
	[IiEL3_K01] The student understands the need to constantly supplement and deepen acquired knowledge; is open to new ideas and teaching methods.		The student understands the need to update operating systems and trends in their development.		[SK4] test/exam - oral or written [SK5] implementation of a problem task		
	[IiEL3_W01] The student has advanced knowledge of the place of social sciences in the system of sciences, their nature, methodology and connections with other sciences.		The student has knowledge of the role and importance of operating systems		[SW4] test/exam - oral or written [SW5] implementation of a problem task		

Subject contents	History, role and tasks of operating system, classification of operating systems, concepts: resource, process, thread, file systems, Linux installation and configuration and management, Linux shell commands, Linux directory services, Apache, openLDAP, SAMBA, Winows installation and configuration, Windows server roles, network configuration, desktop configuration, device drivers, Windows shell commands, Winows directory services,AD Domain Services, AD Certificate Services, AD Lightweight Directory Services, AD Rights Management Services, AD Federation Services, Shell scripts, batch files, PowerSchell scripts, Bash scripts. Creating virtual machines, installing Ubuntu server LTS, installing SSH, creating, deleting, renaming files and directories, managing user accounts, managing file and directory rights, hard and soft links, PAM modules, installing and managing OpenLDAP and SAMBA, LAMP server, Nginx application server, , installing Windows Server, configuring drivers, networking, desktop, preparing a domain environment, adding objects to a domain, managing access to resources, security policies, DHCP service, DNS service, IIS application server, creating a bat batch file, creating a PowerShell script, creating a Bash script.		
Prerequisites and co-requisites			
Assessment methods and criteria	Subject passing criteria	Passing threshold	Percentage of the final grade
	test/examination - oral or written	35.0%	50.0%
	implementation of the problem task	50.0%	50.0%
Recommended reading	Basic literature	Author's script	
	Supplementary literature	Unix i Linux. Przewodnik Administratora. Evi Nemeth, Garth Snyder, Trent R. Hein , Ben Whaley , Dan Mackin. Helion Biblia Windows Server 2019. Podręcznik Administratora. Krzyszof Wołk, Wydawnictwo Psychosock	
	eResources addresses	Adresy na platformie eNauczanie:	
Example issues/ example questions/ tasks being completed	Run the DHCP server role on Windows and Linux.		
Work placement	Not applicable		

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