

Subject card

Subject name and code	Architecture and management of operating systems, PG_00037348								
Field of study	Technical Physics								
Date of commencement of studies	October 2020		Academic year of realisation of subject			2022/2023			
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			4.0			
Learning profile	general academic profile		Assessment form			assessment			
Conducting unit	Department of Theore	Department of Theoretical Physics and Quantum Information -> Faculty of Applied Physics and Mathematic					d Mathematics		
Name and surname	Subject supervisor		dr hab. inż. arch. Jan Kozicki						
of lecturer (lecturers)	Teachers		dr hab. inż. arch. Jan Kozicki						
Lesson types and methods	Lesson type	Lecture	Tutorial	Laboratory	Projec	t	Seminar	SUM	
of instruction	Number of study hours	15.0	0.0	30.0	0.0		0.0	45	
	E-learning hours inclu					0 15 1		0.114	
Learning activity and number of study hours	Learning activity Participation in classes include plan			Participation in consultation hours		Self-study		SUM	
	Number of study 45 hours			5.0		50.0		100	
Subject objectives	The goal of this course is to familiarise the students with basic topics concerning structure of Linux operating system, its functions and process menagement methods. Additionally the goal is to present the capabilities of script languages built into Linux and teaching students to use them.								
Learning outcomes	Course out	Subject outcome				Method of verification			
	K6_W05					[SW1] Assessment of factual knowledge			
	K6_U02			student can solve basic Linux tasks such as installation or recompilation of a package or working with basic Linux software.			[SU2] Assessment of ability to analyse information		
Subject contents	 1. installing linux 3h, 2. window managers 3h, 3. configuring linux, /etc dir 3h, 4. gnuplot 3h, 5. latex 3h, 6. bash scripts, /etc dir 3h, 7. recompiling packages 3h, 8. awk scripts, sed, grep 3h, 9. program htop 3h, 10. linux GUI 3h, 11. git status in shell 3h, 12. zsh scripts, git-status and git-cal 3h, 13. cron 3h, 14. rsnapshot and rsync 3h, 15. mdadm 3h, 16. vim 3h 17. regexp 3h, 18. cryptocurrencies: mining and blockchain 3h 								
Prerequisites and co-requisites									
Assessment methods	Subject passin	Passing threshold			Percentage of the final grade				
and criteria	laboratory	•			100.0%				

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Recommended reading	Basic literature	 [1] Carla Schroder "Linux Cookbook: Essential Skills for Linux Users" [2] Dennis Matotek, James Turnbull, Peter Lieverdink "Pro Linux System Administration: Learn to Build Systems for Your Business Using Free and Open Source Software" [3] Evi Nemeth, Garth Snyder, Trent R. Hein, Ben Whaley, Dan Mackin "UNIX and Linux System Administration Handbook (5th Edition)"
	Supplementary literature	None.
	eResources addresses	Adresy na platformie eNauczanie: Arch. i administracja systemów operacyjnych 2022/2023 - Moodle ID: 3918 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=3918
Example issues/ example questions/ tasks being completed		
Work placement	Not applicable	

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