GDAŃSK UNIVERSITY OF TECHNOLOGY

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 2022	Academic year of realisation of subject	2024/2025
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	Division of Theoretical Physics and Quantum Informaton -> Institute of Physics and Applied Computer Science -> Faculty of Applied Physics and Mathematics		
Name and surname of lecturer (lecturers)	Subject supervisor	dr hab. inż. arch. Jan Kozicki	
	Teachers	dr hab. inż. arch. Jan Kozicki	

Lesson types and methods of instruction

Lesson type	Lecture	Tutorial	Laboratory	Project	Seminar	SUM
Number of study hours	15.0	0.0	30.0	0.0	0.0	45

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	45	5.0	50.0	100

Subject objectives

The goal of this course is to familiarise the students with basic topics concerning structure of operating systems, their functions and process menagement methods. Additionaly the goal is to present the capabilities of script languages built into Linux and teaching students to use them.

Learning outcomes

Course outcome	Subject outcome	Method of verification
K6_U02	student can solve computer problems	[SU2] Assessment of ability to analyse information
K6_W05	student knows how to use linux	[SW1] Assessment of factual knowledge

Subject contents

linux, gnuplot, latex, bash, awk, sed, grep, htop, git, zsh, cron, rsnapshot, rsync, mdadm, vim, regexp

Prerequisites and co-requisites

Assessment methods and criteria

Subject passing criteria	Passing threshold	Percentage of the final grade
laboratory	50.0%	100.0%

Recommended reading

Basic literature	[1] Carla Schroder "Linux recipes", 2021 [2] Matotek, James Turnbull, Peter Lieverdink "Linux Professional system administration", 2018
Supplementary literature	[1] Snyder, Trent R. Hein, Ben Whaley, Dan Mackin "Unix and Linux. System administrator guide.", 2018
eResources addresses	Adresy na platformie eNauczanie: Arch. i administracja systemów operacyjnych 2024/2025 - Moodle ID: 45501 https://enauczanie.pg.edu.pl/moodle/course/view.php?id=45501

Example issues/ example questions/ tasks being completed	Compile debian package with chosen software. Starting of the apache server to serve webpages. Write a simple webpage. Starting ssh server to allow remote login to the computer.
Work placement	Not applicable

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