				Bial	ystok Uni	versity of	Technolog				
Field of study	Computer Science							Degree level and programme type	Engineer's degree full-time programme		
Specialization/ diploma path								Study profile	academic		
Course name			Linux	Administ	ration		Course code	FCS-00039			
	Course type							obligatory			
Forms and number of hours of tuition	L	С	LC	Р	SW	FW	S	Semester		2	
	30		<u>i </u>		30			No. of ECTS credits		6	
Entry requirements	Provide	basic know	ledae of th	ne installati	on. operati	on and adr	ninistration	of the GNU Linux systems.			
Course objectives	Course prepares for the exam: LPIC-1. Lecture and specialist workshop: I. System Architecture 1. Determine and configure hardware settings 2. Boot the system 3. Change runlevels / boot targets and shutdown or reboot system 11. Linux Installation and Package Management 1. Design hard disk layout 2. Install a boot manager 3. Manage shared libraries 4. Use Debian package management 5. Use RPM and YUM package management 6. Linux as a virtualization guest 11. GNU and Unix Commands 1. Work on the command line 2. Process text streams using filters 3. Perform basic file management 4. Use streams, pipes and redirects 5. Create, monitor and kill processes 6. Modify process execution priorities 7. Search text files using regular expressions 8. Basic file editing W. Devices, Linux Filesystems Hierarchy Standard 1. Create partitions and filesystems 3. Control mounting and unmounting of filesystems 3. Control mounting and unmounting of filesystems 4. Maintain the integrity of filesystems 3. Control mounting and unmounting of filesystems 4. Maintain the integrity of filesystems 3. Control mounting and place files in the correct location 4. Lecture - written test on Model platform										
Teaching methods											
Assessment method				lle platforn	n						
Symbol of learning outcome	Laboratory - exercise reports Learning outcomes								Reference to the learning		
									outcomes for the field of study K_W03		
L01	knows the structure, properties and principles of GNU / Linux system, particularly the latest distributions								K_W08		
L02	able to install the system and manage packages								K_U08		
L03	able to use	e a popular	K_U08								
LO4	can manag	ge devices	K_U08								
Symbol of learning outcome	f learning outcome Methods of assessing the learning outcomes							ies	Type of tuition during which the outcome is assessed		
LO1	test								L		
L02	quizzes, practical tasks								S	w	
L03	quizzes, practical tasks								Sw		
LO4	quizzes, practical tasks								Sw		
-	Student workload (in hours)								No. of hours		
Calculation	1 - Attendance at lectures - 15X2								30		
	2 - Attendance at laboratories - 15X2								30		
	3 - Preparation for laboratories -								10		
	4 - System configuration - projects -								65		
	5 - Participation in student-teacher sessions -								5		
	6 - Preparation for the exam -								10		
	ΤΟΤΑΙ								150		
			Quant	itative ind	licators				HOURS	No. of ECTS	
			-						65	credits	
	Student wo						articipatior	n	(1)+(2)+(5) 105	2.6	
Basic references	Student workload - practical activities 200 (2)+(3)+(4) 1. LPIC-1 materials: https://learning.lpi.org/. 2. System User Guide - GNU Linux.									7.2	
Supplementary references	2. Fedor	 Debian system documentation - http://www.debian.org/doc. Fedora system documentation - http://docs.fedoraproject.org. SuSe system documentation - http://en.opensuse.org/Documentation. 									
Organisational unit									Date of issuing the programme		
	Department of Information Systems and Computer Networks						Computer N	lotworks	Date of issuing the programme		
conducting the course			Departn					letworks	_		
conducting the course Author of the programme			Departn		rmation Sy inż. Andrze			letworks	_	the programme 7, 2022	

L – lecture, C – classes, LC – laboratory classes, P – project, SW – specialization workshop, FW – field work, S – seminar

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