		-	-	Bial	ystok Univ	versity of	Technolog	у			
Field of study	Computer Science							Degree level and programme type	Engineer's degree full-time programme		
Specialization/ diploma path	Study profile								academic		
Course name	Introduction to Linux Course code								FCS-00057		
Course name	Course type								obligatory		
Forms and number of hours of tuition	L	L C LC P SW FW S Semester						Semester	2		
	15				15			No. of ECTS credits		6	
Entry requirements Course objectives	The aim of the course is to familiarize with various distributions of Linux open source operating system. Will discuss the bat the system, mainly on the part of the user with the ability to implement shell scripts, also using regular expressions. Will also be presented free software licenses. Subject to a large extent based on a course preparing for the LPIC-1 certification.									-	
Course content	Introduction to the Linux operating system. License free software, open source, GPL, etc. Installation of the system. Basic commands executed based on the text interface. Bash shell programming. Constructing regular expressions. Configuring network interfaces. Using SSH to connect to remote devices.										
Teaching methods	lecture problem, programming,										
Assessment method		- written e									
	Isobolishert interior Isobolishert interior Isobolishert interior Isobolishert interior Isobolishert interior Isobolishert interior								Reference to the learning		
Symbol of learning outcome									outcomes for the field of study		
L01	knows the licenses of free and open source software								K_W14		
L02	can install the operating system in a variety of configurations								K_U06		
LO3	is able to configure Linux distributions from client side.								К_W03 К U05		
LO4	is able to create scipts in the selected system shell								К_W03 К_W04 К_U05		
LO5	can create regular expressions								K_W03 K_U05		
Symbol of learning outcome	Methods of assessing the learning outcomes								Type of tuition during which the outcome is assessed		
L01	Test								L		
L02	Installation of selected distribution								Sw		
LO3	Test, report on the exercise grade								L, Sw		
LO4	Test, report on the exercise grade								L, Sw		
L05	Test, report on the exercise grade								L, Sw		
	Student workload (in hours)									No. of hours	
Calculation	1 - Attendance at lectures - 15x1h								15		
	2 - Attendance at laboratories - 15x1h								15		
	3 - Preparation for exams and test (lecture) -								40		
	4 - Participation in student-teacher sessions -								20		
	5 - Preparation of reports -								40		
	6 - Preparation for exams and test (laboratory) -								20		
								TOTAL:	1	.50	
Quantitative indicators								HOURS	No. of ECTS credits		
Student workload - activities that require direct teacher participation								50 (4)+(2)+(1)	2.0		
		Stud	ent workl	oad - prae	ctical activ	vities			55 (5)+(2)	2.2	
Basic references	1. Man pages of GNU Linux. 2. Course materials LPIC-1 (provided for students by teacher). 3. Bash programming - http://tldp.org/HOWTO/Bash-Prog-Intro-HOWTO.html										
Supplementary references	 Debian distribution - http://www.debian.org/doc. Fedora distribution - http://docs.fedoraproject.org. SuSe distribution - http://en.opensuse.org/Documentation. 										
Organisational unit conducting the course	Department of Information Systems and Computer Networks									Date of issuing the programme	
Author of the programme				dr	hab. inż. Ir	eneusz Mro	zek		Feb. 1	7, 2022	

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

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