Załącznik nr 9
do Zarządzenia Rektora PŚk Nr 35/19
w brzmieniu ustalonym Zarządzeniem Nr 12/22

COURSE DESCRIPTION

Course code	full-timestudies	
	part-time-studies	
Course name	**System operacyjny Linux 2**	
Course name in English	**Linux Essentials 2**	
Valid from academic year	**2022/23**	

PLACEMENT IN THE TEACHING PROGRAM

Field of study	Computer Science
Level of education	1st degree
Studies profile	General
Form and method of teaching classes	**Full-time and part-time studies**
Specialization	**Information and communication technology**
Organizational unit responsible for the course	**Department of Information Systems**
Course coordinator	**Dr inż. Adam Krechowicz**
Approved by	**Dean of the Faculty of Electrical Engineering, Automatic Control and Computer Science Roman Deniziak, KUT prof., DSc, PhD**

GENERAL CHARACTERISTIC OF THE COURSE

Course affiliation		**Specialty subject**
Course status		1st degree
Language		**English**
Semester	full-timestudies	**VII**
	part-time-studies	**VII**
Requirements		**Linux Essentials 2**
Exam (YES/NO)		**NO**
ECTS		**6**

Course form		**lecture**	**classes**	**laboratory**	**project**	**other**
Hours per semester	full-timestudies	**30**		**15**	**30**	
	part-time-studies	**18**		**9**	**18**	

LEARNING RESULTS

Category	Result Symbol	Learning Results	References to the field of study results
Knowledge	W01	Knows and understands the advanced assumptions of the Linux system and elements of the system architecture	INF1_W11
	W02	Knows and understands advanced Linux commands and the rules of their use	INF1_W11
	W03	Knows and understands advanced ways to configure and administer Linux	INF1_W11
Skills	U01	Can use the Linux system in an advanced way with the use of the command line	INF1_U11
	U02	Can perform advanced Linux system configuration	INF1_U11
	U03	Can perform advanced Linux system administration	INF1_U11
Social competence	K01	Is ready to cooperate with other Linux users	INF1_K1
	K02	Is ready to use open source software	INF1_K1
	K03	Is ready to participate in the community of free software users	INF1_K2

COURSE CONTENT

Course Form	Content
lecture	Advanced shell functions Advanced scripting Using the SQL language Use of system logs Working with system time Configuring e-mail services Setting up print services Configuring recurring tasks Advanced network configuration Network troubleshooting User account security Host security Use of encryption
laboratory	Advanced shell script creation Advanced use of system logs Configuration of mail and print services Advanced network configuration Use of recurring tasks Security on Linux Advanced use of encryption
project	The aim of the project is to create a system that uses the knowledge obtained from websites in order to make automatic conclusions. Design purposes include searching for relevant knowledge, transforming knowledge into an appropriate format, developing inference rules, and presenting the acquired new knowledge to end-users. Additionally, the task of the system should be to provide knowledge in the form of micro-data. Projects will be implemented in teams of two.

LEARNING RESULTS VERIFICATION METHODS

Result Symbol	Learning results verification methods					
	Oral Exam	Written Exam	Midterm	Project	Report	Other
W01			X			
W02			X			
W03			X			
U01				X		X
U02				X		X
U03				X		X
K01				X		X
K02				X		X
K03				X		X

ASSESSMENT FORMS AND CRITERIA

Course Form	Assessment Form	Assessment Criteria
lecture	Passing with grade	The student obtained a minimum of 50% of the points from the test
laboratory	Passing with grade	The student obtained a minimum of 50% of the points from the test
project	Passing with grade	Obtaining at least 50% of the points on a design task.

STUDENT'S VOLUME OF WORK

ECTS Balance												
No.	Activity Type	Student Involvement										Unit
		full-timestudies					part-time-studies					
1)	Participation in classes according to the schedule	Lec	C	Lab	P	S	Lec	C	Lab	P	S	h
		30		15	30		18		9	18		
2)	Other (consultations, exams)	2		2			2		2			h
3)	**Total with the direct assist of an academic teacher**	**79**					**49**					h
4)	**Number of ECTS, that students obtains with the direct assist of an academic teacher**	**3,16**					**1,96**					ECTS
5)	**Hours of unassisted student work**	**71**					**101**					h
6)	**Number of ECTS that student obtains working unassisted**	**2,84**					**4.04**					ECTS
7)	**Practical classes volume of work**	**47**					**29**					h
8)	**Number of ECTS obtained by student at practical classes**	**1,89**					**1,16**					ECTS
9)	**Total student's volume of work expressed in hours**	**150**					**150**					h
10)	**ECTS**	**6**										ECTS

BIBLIOGRAPHY

1. Materials on the NetAcad platform made available to students during classes.