

DESCRIPTION OF THE COURSE OF STUDY

Course code	0314-3KRYŚ-B20-BSSK	
Name of the course in	Polish	<i>Bezpieczeństwo systemów i sieci komputerowych</i>
	English	<i>Security of the systems and computer networks</i>

1. LOCATION OF THE COURSE OF STUDY WITHIN THE SYSTEM OF STUDIES

1.1. Field of study	Applied criminology
1.2. Mode of study	Full-time studies / part-time studies
1.3. Level of study	bachelor degree studies
1.4. Profile of study*	practical profile
1.5. Person/s preparing the course description	Jarosław Orczykowski, MA
1.6. Contact	+48 607770911 / jaroslaw.orczykowski@outlook.com

2. GENERAL CHARACTERISTICS OF THE COURSE OF STUDY

2.1. Language of instruction	Polish/English
2.2. Prerequisites*	The student has a general background knowledge of computer science

3. DETAILED CHARACTERISTICS OF THE COURSE OF STUDY

3.1. Form of classes	Lecture	
3.2. Place of classes	Classes in UJK buildings	
3.3. Form of assessment	Assessment with marks	
3.4. Teaching methods	Lecture, slide show, discussion	
3.5. Bibliography	Required reading	William Stallings, Lawrie Brown, Bezpieczeństwo systemów informatycznych. Zasady i praktyka. Wydanie IV. Tom 1, HELION 2019 William Stallings, Lawrie Brown, Bezpieczeństwo systemów informatycznych. Zasady i praktyka. Wydanie IV. Tom 2, HELION 2019 Chris Fry, Martin Nystrom, Monitoring i bezpieczeństwo sieci, HELION 2010
	Further reading	W. Stallings, Kryptografia i bezpieczeństwo sieci komputerowych. Koncepcje i metody bezpiecznej komunikacji, Gliwice 2012. Vijay Kumar Velu, Kali Linux. Testy penetracyjne i bezpieczeństwo sieci dla zaawansowanych. Wydanie II, HELION 2018 A.Barczak, T.sydoruk, Bezpieczeństwo systemów informatycznych, Siedlce 2002.

4. OBJECTIVES, SYLLABUS CONTENT AND INTENDED LEARNING OUTCOMES

<p>4.1. Course objectives (including form of classes)</p> <p>C1. - Knowledge - To acquaint students with the basic issues of security of computer systems and networks.</p> <p>C2. - Skills - To perfect the skills of selecting and applying secure computer systems and networks.</p> <p>C3. social skills - To form responsibility, conscientiousness and reliability in undertaking professional tasks</p>
<p>4.2. Detailed syllabus (including form of classes)</p> <ol style="list-style-type: none"> 1. architecture of computer systems 2. security of computer networks and systems 3. security standards in data protection 4. characteristics and classification of information 5. computer crime 6 Characteristics of threats in computer systems 7 Classical encryption techniques 8. digital signature 9 The concept of authentication 10. malware 11. computer network security 12. application security 13 Firewalls. 14. email security 15. ensuring data availability.

16. telecommunications security

4.3 Intended learning outcomes

Code	A student, who passed the course	Relation to learning outcomes
within the scope of KNOWLEDGE:		
W01	Knows the construction and operation of devices used to secure computer systems and networks	KRYS1P_W09
W02	Has detailed knowledge related to the security of computer networks and systems	KRYS1P_W02
W03	Has advanced knowledge of the relationship of security of computer systems and networks with other sciences (psychology, sociology, pedagogy, psychiatry, penal sciences) and the possibility of practical application of this knowledge	KRYS1P_W03
within the scope of ABILITIES:		
U01	Has the ability to analyze specific threats to computer systems and networks	KRYS1P_U01
U02	Is able to apply advanced information and communication techniques to describe phenomena and analyze data specific to security of computer networks and systems	KRYS1P_U02
U03	Is able to use basic theoretical knowledge to describe in detail and practically analyze unit processes and social phenomena specific to security of computer networks and systems	KRYS1P_U03
within the scope of SOCIAL COMPETENCE:		
K01	Is able to independently complement the acquired knowledge and skills in the application of modern security of information systems and networks	KRYS1P_K01
K02	Understands the social consequences associated with the practical application of the acquired knowledge and skills, is ready to fulfill social obligations and is able to take responsibility for his own actions	KRYS1P_K05

4.4. Methods of assessment of the intended learning outcomes

Teaching outcomes (code)	Method of assessment (+/-)																				
	Exam oral/written*			Test*			Project*			Effort in class*			Self-study*			Group work*			Others* e.g. standardized test used in e-learning		
	Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes			Form of classes		
	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	...	L	C	..
W01-W03				x			x														
U01-U03				x			x														
K01-K02							x			x											

*delete as appropriate

4.5. Criteria of assessment of the intended learning outcomes

Form of classes	Grade	Criterion of assessment
lecture (L) (including e-learning)	3	He passed the written exam with 51-60% of the maximum points possible.
	3,5	He passed the written exam with 61-70% of the maximum points possible.
	4	He passed the written exam with 71-80% of the maximum points possible.
	4,5	He passed the written exam with 81-90% of the maximum points possible.
	5	He passed the written exam with more than 91% of the maximum possible points.

5. BALANCE OF ECTS CREDITS – STUDENT'S WORK INPUT

Category	Student's workload	
	Full-time studies	Extramural studies
NUMBER OF HOURS WITH THE DIRECT PARTICIPATION OF THE TEACHER /CONTACT HOURS/	26	11
Participation in lectures*	25	10

<i>Participation in classes, seminars, laboratories*</i>	1	1
<i>Preparation in the exam/ final test*</i>	24	39
<i>Others (please specify e.g. e-learning)*</i>	4	4
INDEPENDENT WORK OF THE STUDENT/NON-CONTACT HOURS/	10	15
<i>Preparation for the lecture*</i>	10	20
<i>Preparation for the classes, seminars, laboratories*</i>	50	50
<i>Preparation for the exam/test*</i>	2	2
<i>Gathering materials for the project/Internet query*</i>	26	11
<i>Preparation of multimedia presentation</i>	25	10
<i>Others *</i>	1	1
TOTAL NUMBER OF HOURS	24	39
ECTS credits for the course of study	4	4

**delete as appropriate*

Accepted for execution (date and legible signatures of the teachers running the course in the given academic year)

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