CYBERSECURITY FUNDAMENTALS, MODULE 4 - S Y L A B U S

Code module	Name module	CSIRTs and CERTs
Department		
Field of study		
Form of study		
Level of study		
Profile		
Status of the module		
Person responsible	for the module	
Module instructors		

Form of classes	Lectures	Workshop		
Number of hours/sem	6	14		
Semester(s)			ECTS credits	
Status			Language teaching	
Prerequisites	no			

Learning objectives

Security incidents, cyber-attacks and ICT-related crimes in the real and virtual worlds are becoming more serious and their consequences and effects are getting worse. There is a growing need to improve the defence against these attacks and, in particular, to improve the environment and means of tracking down the perpetrator, to standardise and formalise procedures and to educate users on how to identify, deal with and, ideally, prevent threats and risk situations. To this end, an infrastructure of security teams such as CERTs and CSIRTs is being built. The aim of the course is to familiarise students with these security teams, their functioning, hierarchy, accreditation process,

the possibility of sharing data and information, etc.

Learning outcome	The student who successfully completes the module will know/be able to competent in			
	KNOWLEDGE			
W1	The student will gain information on the historical development of security teams operating in the Internet environment. The student will be familiar with the roles of the different safety teams and the legal basis for their operation.			
W2	The student will gain information on the historical development of security teams operating in the Internet environment. The student will be familiar with the roles of the different safety teams and the legal basis for their operation.			
SKILLS				
U1	Understands the functioning of security teams such as CERT and CSIRTs, learn about their structure and the links between the teams.			

U2 Understanding the issue of incident handling.					
COMPETENCES					
K1 He will be able to act as a member of the safety team.					

Methods of verifying learning outcomes									
	Forms of activity								
Learning outcome	Oral examination	Written examination	Partial written assignment	Final task written (essay	Test	Design/presentatio n	Report	Classroom activities	Other
		· ·	NE	WS			•	•	
W1		Х	х		Х			х	
W2		х	х		Х			х	
			SK	ILLS					
U1						Х		Х	
U2						Х		х	
COMPETENCE S									
K1						Х		х	

Criteria for assessing student competence

The minimum requirements for the three groups of learning outcomes that the Student must achieve in order to pass the subject are presented below in synthetic form. In order for the Student to pass the module, all learning outcomes described in the syllabus must be positively verified by the person(s) teaching the module.

W - KNOWLEDGE

Assessment:

Satisfactory - Student remembers and reproduces the knowledge to be mastered within the module Good - Student

additionally interprets phenomena / problems and is able to solve a typical problem Very good -Student is able to solve even complex problems in a given field, is able to synthesise, carry out a comprehensive evaluation, create a work that is original and inspiring to others.

U - SKILLS

Assessment:

Satisfactory - The student knows the nature of the activities and is able, under the guidance of the academic teacher, to carry out activities / solve problems related to the content of the module Good - Student is able to independently carry out activities / tasks / solve typical problems related to the content of the module

Very good - The student has fully mastered the ability / skill to perform the activities / tasks / problems provided for in the module content, also in more complex cases.

K - SOCIAL COMPETENCE

Assessment:

Satisfactory - Student passively assimilates module content, demonstrating ability to concentrate and listen

Good - Student actively participates in classes, makes value judgements according to criteria accepted in the given field, is able to cooperate actively in a group

Very good - The student integrates the attitude according to the proposed model, develops his/her own system of professional and social values, is able to take responsibility for the actions of the group,

including leadership.

Conte	ent of the module (programme of lectures and other activities)	Reference to effects learning			
LECT	URES	<u> </u>			
2. 3.	Safety team (tasks, roles, processes, etc.) CERTs and CSIRTs (structure, hierarchy) Legal anchoring of CERTs and CSIRTs (rights and commitments) Rights and responsibilities of safety teams	W1, W2 U1, U2, K1			
5.	Incident handling (IH)				
7. WOR 1. 2.	IH open source analysis Data and information transfer capabilities KSHOPS Analysis of the need for a safety team in the organisation Definition of individual assets and SWOT analysis in relation to them Creating and integrating the safety team into the organisation - adopting rules and policies				
5.	<u> </u>				
ECTS credit balance					
	Form of the workload Number of student hours				
	Number of hours with direct participation of academic teacher				
1.1	Participation in lectures	6			
1.2	Participation in seminars				
1.3	Participation in workshops	14			
1.4	Participation in laboratory activities				
1.5	Participation in projects				
1.6	Participation in consultations (2-3 times per semester)				
1.7	Participation in the project consultation				
1.8	Participation in examinations/tests	2			
1.9 1.10	Other Number of hours performed with direct participation academic teacher (sum of 1.1 - 1.9)	22			
1.11	Number of ECTS credits obtained by the student in classes requiring direct participation of an academic teacher)	1,5			
localitational petrodeness results					
2.1	Individual studies (including a learning lectures)	8			
2.1	Individual studies (including e-learning lectures) Individual preparation for workshops	8 12			
		12			
2.3	Individual test preparation				
2.4					
2.6	Implementation of self-performed tasks (projects, documentation)				
2.7	Preparation for the final examination/tests of the workshop	10			
2.8	Preparation for final examination/testing of lectures	15			
2.9	Other				
2 10	Number of hours of individual work (sum of 2.1 - 2.9)	45			

Number of hours of individual work (sum of 2.1 - 2.9)
The number of ECTS credits obtained by the student from the individual teaching

2.10

2.11

45

2,5

Total workload (h)	67
ECTS credits for the	4
module	











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