

UNIVERSITY "UKSHIN HOTI" PRIZREN

FACULTY OF COMPUTER SCIENCE

SYLLABUS											
Level of studies		Bachelor	Program	Program TIT 4		Ac	adem	ic year 2018/1		19	
OBJECT		TOOLS AND SECURITY IN THE INTERNET									
Year	THIRD	Status of	OBLIGATIVE	,							
Semestr	5(fifth)	the		C	od			EC	TS 6		
		subject				Cre	edit				
Lesson weeks		15		Classes			lecture	s Ex	rcises		
							2	2			
Methodo	logy of	Lectures, Exercises, Seminar Works, Consultations, Tests, Case Studies,									
Learning	5	Other Tasks.									
Consulta	tions	One hour before and one hour after lectures									
	h 0.74			e-mail		ail	<u>naim</u>	naim.baftiu@uni-prizren.com			
The teacher		Prof.Asoc.Dr. Naim Bai		uu	Tel.		+383	344234018			
					e-ma	aili	dhurata.hyseni@uni-prizren.co			zren.com	
Assistant		Ph.D.c.Dhurata Hyseni			Tel.		+38344202109				
Study pu	rpose of the	subject		Student Benefits							
The mater	ial is elaborate	ed to reinforce	and emphasize								
basic unde	rstanding of t	he basics of se	curity by giving	Stude	nts v	vill	be	able to	o desig	gn and	
the basic c	oncepts and il	lustrations of 1	nethods for	implement the basic concepts of Internet							
solving cv	ber security is	sues. Many pra	actical	security and installation and deployment of							
examples a	are provided in	n the exercises section that		antivirus products. The acquired knowledge							
provide a s	sufficient basis	s for solving m	will be applied to projects and the security								
problems y	where the prob	olem solving a	applications will be implemented concretely								
security ar	e discussed.										
security ur	soourity are discussed.										
Methodol	Methodology for realization of learning topics:										
Pr	esentation of t	the subject in F	Power Point (stude	nts can	downl	load i	it afte	r each lec	ture fro	m the	
Fa	culty website)) Case study	or assignment (for	r exerci	se hou	rs) re	elated	to the lea	ctured to	pic	
Re	epetition of the	e previous topi	c by the student gr	oup, an	alysis	and	discus	ssion.			
Condition	s for realizat	ion of the sub	ject								
• Ro	bom equipped	with computer	rs and projector								
Student Assessment Mode (in%)											
• D	aulan attanda	noo 100/	Ka	ting in	%	01	100	Final no 10 (ten)	te		
	egular allenda	nce 10%		91-100 81 00			-90	9 (nine)			
• It	zsi nal Evam	20 % 50%		71-			-80	0 8 (eight)			
	minar work	20%		61-70 7 (seven)							
- 50	minur work	2070		51-60 6 (six)							
						0-	- 50	5 (five)			
			·								

Student Obligations:								
Lectures				Exercises				
Following the lecturesActive participation in discussions during				Participation in exercisesGroup work in case studies and				
	lectures			assig	nments.			
•	Seminar work			• Parti	cipation in discussion	on on case		
•	Participation in the test			studi	es.			
Stude	nt load for the subject							
Activit	v			Hour	Days / Weeks	TOTAL		
Lecture	28			2	15	30		
exercis	es			1	1	2		
Practic	al work			1	1	15		
Contac	t with teachers / consultants			-	-	-		
Field e	xercises			1	10	10		
Colloq	uia, seminars			-	-	-		
Homew	vork			1	15	15		
Self-st	udy time			1	10	10		
Final e	xam preparation			1	10	10		
Time s	pent in assessment (tests, quiz, final exam	, etc.)		1	10	10		
Project	s, presentations, etc.			1	10	10		
Remai	ks: 1 ECTS credits = 25 hours of enga	gement.	, ie if t	the	Totale:			
course	course has 6 ECTS credits the student must have engage			ent		150		
during	the semester 150 hours	C						
Week	Lectures		Exer	Exercises				
1.	Themes	hours	Then	nes		hour		
	topic:	2	Topi	c:		2		
	History and Nature of Viruses Nu		Num	Numerical exercises.				
	Understanding security		The lab shows how the viruses attach					
	Virus Tools (toolkit) as t			as their additions and what they				
	Types of computer viruses con			contain.				
				Numerical exercises.				
	Literature			Literature				
2.								
	Who writes computer viruses Nun How Does an Anti-Virus Work? Viru How to avoid the catching virus? and grow viru Literature: Lite			Numerical exercises.				
				Virus eraser authors, their functioning and their elimination. Students work in				
				groups in the laboratory to eliminate viruses.				
2		2	Literature:					
5.	The importance of security	2	Num	erical exe	ccises.	2		
	Web Security Service Refusal (DoS)		What	y. It				
			deals	of a				
	Security DocumentsconVirus worms and Morris Worms virussec			company's web and begins with its security, starting from the database to its publication.				
its p			its pu					

	Literature:		Literature:	
4.	Computer networks Computer Network Risks and Security Needs. Risk of data entry Security risk methods. Risk of data transmission	2	Numerical exercises. Case study of computer networks and their security. Works in a group of students for opening and network security in the lab.	
5.	Types of System Dangers Risks from the outside. Dangers from within Types of viruses Trojan (Trojan Horse), Worm (Crime)	2	Case study of the risks from the outside Case study of dangers from within System Check and Trojans and Worms horse virus identification.	
	Literature:		Literature:	
6.	Removing computer viruses. Scanning (controlling) files. Tracking Cookies Adware (ADvertisments softWARE). Popups and pop-unders. Spam How do we know that spammers are on the computer? Installing the program	2	The lab is how the viruses of different types are removed. What are antivirus types for PC installation? It is a concrete case for installing the anti virus and deinstalling it from the PC	
7.	Methods and techniques for system security. Data security methods (information). Types of Controls. Attacks on the server Modifying server rooms	2	The laboratory analyzes the work of an application system and its security with a licensed antivirus. The work of a practical server is analyzed eg. A company or university server, maintaining basic data and changing data.	
8.	The newest action of computer viruses, their types and protection from them. Content of new virus actions. Types and types of malware. Multiple-Threat Malware. Blended attack firewall Literature:	2	Changes in the actions of anti-virus types. There is a comparison of two types or even many types of antivirus products. All will be presented in practical form in the lab Literature:	2
9.	Computer Network Security Without Wires Threats of wireless technology. Wireless security techniques Internet networks and security. Views from the WLAN-Internet network The free flight zone of WLAN networks	2	Types of wireless and wireless networks as well as their security. Practically the types of networks in the lab are presented, their security with a licensed antivirus appears	2
	Literature:		Literature:	
10.	Secret Operations of Viruses in Commercial Services. Protecting the program on PC. Special-specialty units of viruses. Border Control at PC Entry and Exit. Memory and rankings strategy. Physical devices for	2	Preparing students for the test; Repeat some data (tasks) in the test.	2

	controlling access to computers.			
	Preparing students for the test;			
	Literature		Literature	
11.	Computer hardware security Security		Numerical evencies	
	of applications. Types of hardware and		numerical exercises.	
	software firewalls Firewall		Handman Danta and Their Dhusiaal	
	Configuration. Security updates-1 and		Hardware Parts and Their Physical	
	2 Prevention of active infections-1		Broughting infrations in analisation	
	Securing the computer with sensor		Preventing infections in application	
	temperature		software.	
	Literature:		Literature:	
12.				
	Topic: Computer Passwords Password		The lab changes the way of	
	protection IP Security (IPSec) Two		changing passwords. Replacement	
	Authentication Safety in the transport		of no. And IP. Encryption and	
	laver Encryption / deencryption		decryption algorithms	
	algorithms Four protocols			
10	Literature:		Literature:	2
13.	Topic		In the laboratory is presented	2
	Internet security and e-mail delivery		internally the security of the Internet	
	Cryptographic secrets Cryptographic		and the sending of emails Secrets	
	Message Syntax (CMS) POP3 Email.		cryptography practical question	
	Install an Anti-Virus program		concrete examples.	
	T 'de andre and	_	T 'te and early	
1.4	Topic:		Literature:	
14.	Security of information Authentication			
	Technology (Verification) Security		The verification technology, case	
	Components of an Information		studies in the laboratory	
	System. Security procedures			
15.	Topic:	2	Topic:	2
	Preparing for the final exam.		Preparation for the final exam.	
	Separation of theoretical topics for		Separation of theoretical topics for	
	for seminar work Server Deems		for seminar work. Start the protection	
	Standard rules for server room		of seminar papers	
	building		or seminar papers	
	Literature:	-	Literature:	
LITE	CRATURE			

Literature:

- 1. 2009 NFPA 75: Standard for the Protection of Information Technol-ogy Equipment CompTIA Security+ All-in-One Exam Guide, Third Edition. Libri "CompTIA Security+".
- 2. CompTIA Security+, Third Edition, (2011) Wm.A.Conklin, G.White, D. Williams, R. Davis, C. Cothren.
- 3. Cryptography and Network Security (Principles and Practice) Fifth Edition (2011), W.Stallings.
- 4. Principles of Computer Security, Second Edition (2011), V.Nestler, Vm.A.Conklin, G.White, M.Hirsch.
- 5. Krahasimet e produkteve Anti-Virus: <u>http://www.av-test.org/en/</u>.
- 6. Inxhinjeria sociale:http://www.securingthehuman.org/ouch/2014#november2015

Next Literature:

CompTIASecurity+ All-in-One Exam Guide, Third Edition-1 CompTIASecurity+ All-in-One Exam Guide, Third Edition-2

Remarks

- For each subject, students will be provided with the necessary materials in Albanian.
- At the end of each lesson, certain student groups will engage in a task or case study on the topic taught.
- The results achieved by that task, student groups should present and discuss them at the classroom hours

Reminder for the student:

- First of all, the student should be mindful of and respect the school's institution and rules.
- Must observe the schedule of lectures, exercises and be attentive to the lesson
- It is obligatory to have possession and submission of student IDs in tests and exams.
- During the preparation of seminar papers, the student must adhere to the instructions given by the teacher for the research and technical accomplishment of the work.