	Course	Pogular	Lecture	Seminar	Lab.		
Course Code	Type	Regular Semester	(hours/we ek)	(hours/we ek)	(hours/we ek)	Credits	ECTS
CMP 312	В	Spring	2.00	0.00	2.00	3.00	6.00
	Lecturer Elton Kaziu, Msc						
Assistant							
Cou	Course language Albanian						
	Course level Bachelor						
	Description	The objectives of this course are to familiarize students with: basic security threat on netwoks connected to the Internet basic tools to provide user and system security, and security resources available on the Internet. Topics include security framework overview, footprinting, scanning, enumeration, hacking framework, backdoor servers and Trojans, rootkits, Windows (7, 8, 10) and Linux vulnerabilities, dialup, VPN and network devices vulnerabilities, firewalls, Intrusion Detection System (IDS), Denial of Service (DoS) and DDoS, buffer overflows, spyware, phishing, social engineering and protecting the Web end-user. This is a project-oriented course using a restricted access UB Lab to practice the use of hacking and security tools.					
	Objectives						
C	ore Concepts	Topics include security framework overview, footprinting, scanning, enumeration, hacking framework, backdoor servers and Trojans, rootkits, Windows (7, 8, 10) and Linux vulnerabilities, dialup, VPN and network devices vulnerabilities, firewalls, Intrusion Detection System (IDS), Denial of Service (DoS) and DDoS, buffer overflows, spyware, phishing, social engineering and protecting the Web end-user.					
Course Outli	ne						
Week		Topic					
1	Introduction t	o Computer Securi	ty				
2	Networks and	ks and the Internet					
3	Cyber Stalking	king, Fraud, and Abuse					
4	Denial of Serv	Denial of Service Attacks					
5	Malware						
6	Techniques U	Techniques Used by Hackers					
7	Industrial Esp	Industrial Espionage in Cyberspace					
8	Encryption	Encryption					
9	Computer Security Software						
10	Security Polic	ies					
11	Network Scan	ning and Vulnerab	ility Scanning				
12	Cyber Terroris	Cyber Terrorism and Information Warfare					
13	Cyber Detective						
14	Introduction to Forensics						
15	Review						

16	Final Exam		
Prerequisites The student must attend the course at a minimum rate of 75%.		The student must attend the course at a minimum rate of 75%.	
Literature		Computer Security Fundamentals 5th Edition	
	References	•	

Course Outcome

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The topics include an overview of the security framework, trace tracking, scanning, counting, piracy frameworks, backdoor servers and Trojans, rootkits, vulnerabilities in Windows (7, 8, 10) and Linux, vulnerabilities in mobile devices, VPNs and network devices, firewalls, Intrusion Detection Systems (IDS), Denial of Service (DoS) and Distributed Denial of Service (DDoS), buffer overflow, spyware, phishing, social engineering, and end-user web protection. This is a project-oriented course utilizing a restricted access lab environment to practice the use of hacking and security tools.

Course Evaluation

In-term Studies	Quantity	Percentage
Midterms	1	30
Quizzes	0	0
Projects	0	0
Term Projects	1	20
Laboratory	0	0
Class Participation	1	10
Total in-term evaluation percent		
Final exam percent		
Total		

ECTS Workload (Based on Student Workload)

Activities	Quantity	Duration (hours)	Total (hours)
Course duration (Including the exam week: 16x Total hours of the course)	16	4	64
Study hours outside the classroom (Preparation, Practice, etc.)	14	5	70
Duties	1	0	0
Midterms	1	8	8
Final Exam	1	8	8
Other	0	0	0
Total Work Load			
Total Work Load / 25 (hours)			
ECTS			