Course Name : Data Security								
Course Code	Course Type	Regular Semester	Lecture (hours/we ek)	Seminar (hours/we ek)	Lab. (hours/we ek)	Credits	ECTS	
CMP 312	В	Spring	2.00	0.00	2.00	3.00	6.00	
	Lecturer Rexhion Qafa, Msc							
Assistant								
Cour	rse language	Albanian						
	Course level	Bachelor						
	Description	The objectives of this course are to familiarize students with: basic security threats 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	The objectives of this course are to familiarize students with: basic security threats on netwoks connected to the Internet basic tools to provide user and system security, and security resources available on the Internet.						
Core Concepts Core Concepts Topics include security framework overview, footprinting, scanning, enume hacking framework, backdoor servers and Trojans, rootkits, Windows (7, 8 and Linux vulnerabilities, dialup, VPN and network devices vulnerabilities, firewalls, Intrusion Detection System (IDS), Denial of Service (DoS) and DD buffer overflows, spyware, phishing, social engineering and protecting the end-user.				', 8, 10) es, DDoS,				
Course Outlin	ne							
Week				Topic				
1	Introduction t	oduction to Computer Security						
2	Networks and	Networks and the Internet						
3	Cyber Stalkin	Cyber Stalking, Fraud, and Abuse						
4	Denial of Serv	Denial of Service Attacks						
5	Malware	Malware						
6	Techniques U	Techniques Used by Hackers						
7	Industrial Esp	Industrial Espionage in Cyberspace						
8	Encryption							
9	Computer Sec	curity Software						
10	Security Polic	ies						
11	Network Scan	Network Scanning and Vulnerability Scanning						
12	Cyber Terroris	Cyber Terrorism and Information Warfare						
13	Cyber Detective							
14	Introduction t	Introduction to Forensics						

15	Review		
16	Final Exam		
	Prerequisites	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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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 Evaluation

In-term Studies		Quantity	Percentage
Midterms		1	20
Quizzes		0	0
Projects		2	20
Term Projects		0	0
Laboratory		0	0
Class Participation		0	0
Total in-term evaluation percent			40
Final exam percent			60
Total			100

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	4	56	
Duties	2	8	16	
Midterms	1	3	3	
Final Exam	1	3	3	
Other	0	0	0	
Total Work Load				
Total Work Load / 25 (hours)				
ECTS				