



COURSE: Cyberattack Techniques			
MÁSTER: Master in Cybersecurity		YEAR: 2018/19	TERM: 1st

WEEKLY PLANNING									
WEEK	SESSION	DESCRIPTION	TEACHING (mark X)		SPECIAL ROOM FOR SESSION (Computer class room, audio-visual class room)	Indicate Yes if the session requires 2 teachers	WEEKLY PROGRAMMING FOR STUDENT		
			LECTURES	SEMINARS			DESCRIPTION	CLASS HOURS	HOMEWORK HOURS (Max. 7h week)
1	1	Welcome session. Course description. Concepts and definitions.	X				Review and study the concepts. Read bibliography.	1.66	2
1	2	Steps of an intrusion. Types of reconnaissance.	X			1.66			
2	3	Passive scanning techniques: Open source intelligence.	X				Review and study techniques. Explore different tools and open sources.	1.66	4
2	4	Active scanning techniques (1/2).	X				Review and study networking concepts. Learn different scan techniques	1.66	
3	5	Active scanning techniques (2/2).					Experiment different scanning techniques. Perform practical assignment I.	1.66	7
3	6	Laboratory assignment 1: Reconnaissance		X	Lab	Yes		1.66	
4	7	Pivoting. Meta tools for reconnaissance. Vulnerability analysis		X	Lab	Yes	Experiment new tools. Prepare exam.	1.66	7
4	8		1.66						
5	9	Partial exam (1)	X				Review web proxies and scanning techniques.	1.66	4
5	10	Web scanners. Web attacks vectors and strategies. Encoders.	X				1.66		
6	11	Hands on web scanners					Experiment with tools and start with practical assignment 2.	1.66	7
6	12	Laboratory assignment 2: Web scanners		X	Lab	Yes		1.66	

Sheet1

7	13	Exploitation. Introduction, concepts and basic techniques. Exploiting Authentication systems and software vulnerabilities		X	Lab		Review and study techniques. Experiment with tools. Finish practical assignment 2	1.66	7
7	14							1.66	
8	15	Hands on exploitation with metasploit. Exploits, payloads, listeners, encoders.		X	Lab	Yes	Further experiment evading techniques and frameworks	1.66	4
8	16	Other attack frameworks						1.66	
9	17	Evading techniques. Resource consumption. DoS	X				Review and study concepts. Read bibliography.	1.66	4
9	18	Social Engineering attacks. Web tools for social engagement.	X					1.66	
10	19	Hands on Social Engineering attacks. Hiding techniques. Persistence. Setting up new access channels.		X	Lab		Review and study concepts. Experiment with tools.	1.66	4
10	20							1.66	
11	21	Privilege escalating and laterally moving.		X	Lab	Yes	Study concepts of previous sessions and prepare exam.	1.66	7
11	22							1.66	
12	23	Partial exam (2)		X	Lab	Yes	Work on practical assignment 3	1.66	7
12	24	Laboratory assignment 3: Complete attack						1.66	
							Work on practical assignment 3		7
Subtotal 1								39.84	71

TOTAL (Total 1 + Total 2. Maximum 156 hours)								110.84
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