Ν	Торіс	Status	
1	Module 1. Introduction to the penetration testing	Teacher's book – 100%	
	 What is hacking and ethical hacking? Types of cyberattacks; Penetration testing methodology: OSTMM, ISSAF, etc; Penetration testing project management; Hacking tools overview; Know the applicable laws; Dealing with third parties; Social engineering issues; Logging; Reporting; Scope. Links to other courses; 	Student's book – 100% PPT – 100% Virtual machine (ISO image) – 100%	
	 Lab 1.1 Basic configuration of ethical hacker workplace: Kali Linux Lab 1.2 Basic configuration of machine for hacking: Metasploitable 2 		
2	Module 2. Intelligence Gathering	Teacher's book – 100%	
	 OpenSourceIntelligence methods; Structured analytic techniques overview; Types of collected information: Business information (financial, clients, suppliers, partners); Information about IT-infrastructure; Employee; Discovering sources of the information; Google for penetration testers; Other search instruments; Tools overview; 	Student's book – 100% PPT – 100% Virtual machine (ISO image) – 100%	
	Labs:		
	 Lab 2.1 Using of Google for OSINT; Lab 2.2 Using Maltego; Lab 2.3 Whois Reconnaissance, DNS Reconnaissance, SNMP reconnaissance, SMTPreconnaissance, Microsoft Netbios Information Gathering Lab 2.4 Network discovery with NMAP scanner. 		

	Lab 2.5 Using sniffers	
3	Module 3. Vulnerability Analysis	Teacher's book – 100%
	 Types of vulnerabilities; Manual search for vulnerabilities; Automated search for vulnerabilities; Vulnerability Analysistools. Labs: Lab 3.1 Basic Netcat usage; Lab 3.2 Manual search for vulnerability in Apache Web-server using Telnet\Netcat; Lab 3.3 Using vulnerability scanners (Nessus, 	Student's book – 100% PPT – 100% Virtual machine (ISO image) – 100%
	 Nexpose, OpenVAS) for vulnerability discovery; Lab 3.4 Using miscellaneous assessment tools. 	
4	 Module 4. Vulnerability Analysis for Web-applications OWASPprojects Types of vulnerabilities in Web-applications. OWASP Top 10 vulnerabilities OWASP testing guide overview; Google Hacking. Google Hacking Database (GHDB) Web security testing tools: Web-scanners, LocalProxies Fuzzers Specialized browsers and browser plugins 	Teacher's book – 0% Student's book – 0% PPT – 0% Virtual machine (ISO image) – 100%
	Labs:	
	 Lab 4.1 Google Hacking using Google Hacking Database (GHDB); Lab 4.2 Vulnerabilities discovery with web-scanners Nikto, Arachni; Labs 4.3 – 4.12 on OWASP Top 10 vulnerabilities 	
5	Module 5. Exploitation	Teacher's book – 50%
	 What is an exploit? (Dorofeev) TheExploitDatabase Google for penetration testers: <u>www.exploit-db.com</u> 	Student's book –50% PPT – 0%

	Localexploitation	Virtual machine (ISO image) –
		100%
	Metasploit Framework overview;	10070
	Types of payloads;	
	Meterpreter usage;	
	 Man-in-the-middle attacks; 	
	 Password attacks: online and offline; 	
	 Art of manual password guessing; 	
	Pass the hash attack.	
	Labs:	
	Lab 5.1 Exploitation of Metasploitable 2 with	
	Metasploit ();Dorofeev)	
	• Lab 5.2 spoofing tools : basic Ettercap, arpspoof	
	usage (Cain & Abel? - Dorofeev)	
	• Lab 5.3 Perform A Man In The Middle Attack With	
	Kali Linux &Ettercap (among others SSLStrip);	
	• Lab 5.4 Online password attack with THC-Hydra;	
	(Dorofeev)	
	 Lab 5.5 Offline password attacks with John-the- 	
	Ripper (Dorofeev)	
	 Lab 5.6 Modern 2014 attacks - heartbleed, 	
	shellshock, etc	
	Shenshock, etc	
6	Module 6. Social engineering	Teacher's book – 0%
Ū		
	 Social engineering (Dorofeev) 	Student's book – 0%
	 The Social engineering Toolkit project overview; 	
	(Andrian)	PPT – 0%
		Virtual machine (ISO image) –
	Labs:	100%
	• Lab 6.1 SET usage;	
7	Module 7. Exploitation using client-side attacks	Teacher's book – 0%
1 /		
	Noucle 7. Exploitation using client-side attacks	
	Client side exploits	Student's book – 0%
		Student's book – 0%
	Client side exploits	
	 Client side exploits The browser exploitation framework project overview; 	Student's book – 0% PPT – 0%
	Client side exploitsThe browser exploitation framework project	Student's book – 0% PPT – 0% Virtual machine (ISO image) –
	 Client side exploits The browser exploitation framework project overview; Labs: 	Student's book – 0% PPT – 0%
	 Client side exploits The browser exploitation framework project overview; Labs: Lab 7.1 Client side exploits; 	Student's book – 0% PPT – 0% Virtual machine (ISO image) –
	 Client side exploits The browser exploitation framework project overview; Labs: 	Student's book – 0% PPT – 0% Virtual machine (ISO image) –
	 Client side exploits The browser exploitation framework project overview; Labs: Lab 7.1 Client side exploits; 	Student's book – 0% PPT – 0% Virtual machine (ISO image) –

8	Module 8. Maintaining Access		Teacher's book – 0%
	•	Maintaining Access utilities	Student's book – 0%
	Labs:		PPT – 0%
	•	8.1 Remote rootkit installation and usage;	Virtual machine (ISO image) – 100%