

Devang Patel Institute of Advance Technology & Research

Subject Name: Information Security/ Cryptography and Network Security/
Cryptography & Network Security

Semester: 6th

Subject Code: CE348/CSE345/IT348

Academic year: 2020-2021

Practical List

Sr. No:	Practical Aim	Hrs
1	Perform 5 different types of (port) scanning using nmap on a single port and capture the packets using wireshark and analyze the output.	02
2	a) Perform Port Scanning, File Transfer, Client-server chat and Basic Webserver implementation using netcat. https://www.youtube.com/watch?v=UI3_ML392TI https://www.youtube.com/watch?v=cg3SyoPcuBI b) Find the service running on the particular port using netcat. https://cyberops.in/blog/what-is-netcat-how-to-use/	02
3	Use Wireshark and netsniff to perform Cryptanalytic attacks using packet sniffing .	04
4	Perform automated testing using BurpSuite or ZAP proxies.	02
5	Access remote terminal using SSH without password.	02
6	In computers, Footprinting is the process of accumulating data regarding a specific network environment, usually for the purpose of finding ways to intrude into the environment. Footprinting can reveal system vulnerabilities and improve the ease with which they can be exploited. Use the given approach to implement Footprinting: Gathering Target Information making use of following tools: Dmitry – Deepmagic Reference : https://www.youtube.com/watch?v=_zd3goGLM7Q UA Tester Reference : https://www.youtube.com/watch?v=WsTupi32ZYE Whatweb Reference : https://www.youtube.com/watch?v=Fx9sIgxcNwU	04

7	<p>The transmission of information needs to be secure over the communication channel and the data has to be confidential. Study and implement the practical approach for Steganography.</p> <p>-Using DOS commands</p> <p>-Using OpenPuff Tool</p> <p>Reference: https://embeddedsd.net/OpenPuff_Steganography_Home.html</p>	04
8	<p>Using OWASP-ZAP tool to find out Web Application Vulnerability.</p> <p>https://www.youtube.com/watch?v=KFZzgOnkLE8</p> <p>https://www.youtube.com/watch?v=KeSUiCr-WGo</p>	02
9	Implement GPG for windows and Linux.	04
10	<p>Setup Firewall that</p> <p>a) Allow all outgoing connection</p> <p>b) Block all unwanted incoming connection</p>	02
*	Security Tools: Openvas, DVWA	
*	Attacking Web Application: SQL injection.	