

GUJARAT TECHNOLOGICAL UNIVERSITY
Master in Computer Application (Integrated)
Year IV – (Semester-VIII) (W.E.F. Dec 2016)

Subject Name: Cyber Security & Forensics (CSF)

Subject Code: 4480608

Indicative Practical List

1. Study of following network emulators:
 - i) WHOIS Search
 - ii) Whois CLI Command
 - iii) Nslookup
 - iv) Host
 - v) Ping
 - vi) Traceroute
 - vii) Netstat
2. Configuring a LAN, MAN and WAN to show how the communication takes place using Packet Tracer.
3. Create a malicious program that is:
 - i) Virus
 - ii) Worm
 - iii) Trojan
 - iv) Dropper
4. TCP scanning using NMAP.
5. Port scanning using NMAP.
6. TCP / UDP connectivity using Netcat.
7. Network vulnerability using OpenVAS.
8. Web application testing using DVWA.
9. Manual SQL injection using DVWA.
10. Automated SQL injection with SqlMap.
11. Explain in details collected during live analysis.
12. Perform image acquisition of the first partition carry out a dead analysis on image.
13. Perform a forensic analysis through autopsy sleuth kit.
14. Perform forensic analysis through helix.
15. Study “omni peek “and perform live network analysis to capture packets.
16. Perform forensic data recovery through (Icare) a disk drill.
17. Perform forensic hash analysis and integrity check of evidence through FCIV and windiff.