

## **Major Project Tasks:**

1. Perform Scanning Module by using Nmap tool (Download from Internet) and scan kalilinux and Windows 7 machine and find the open/closed ports and services running on machine  
Hacker Machine : Windows 10  
Victim machine : Kali Linux and Windows 7
2. Test the System Security by using metasploit Tool from kali linux and hack the windows 7 / windows10. Execute the commands to get the keystrokes / screenshots / Webcam and etc.,  
Write a report on vulnerability issue along with screenshots how you performed and suggest the security patch to avoid these type of attacks  
Hacker Machine : Kali Linux  
Victim machine : Windows XP / Windows 7
3. Use SET Tool and create a fake Gmail page and try to capture the credentials in command line and  
Hacker Machine : Kali Linux  
Victim machine : Windows XP / Windows 7 / Windows 10
4. Install Social Phish tool from GitHub and try to execute the tool for phishing page and perform in lab setup only
5. Perform SQL injection Manually on <http://testphp.vulnweb.com> Write a report along with screenshots and mention preventive steps to avoid SQL injections
6. Use Mobile tracker free (online tool) to install in android mobile phone and try to execute the commands and taken live webcam stream and screenshots and whatsapp messages. Write a report on that attack and provide solutions to avoid android hacking
7. Crack the password of windows machine by using ophcrack tool in virtual machine on windows 7 and try get the password, along with that mention the path of SAM file in windows and explain about SAM file usage and how it can be cracked by tool.
8. Write an Article on cybersecurity and recent attacks which you came across in media and news and research on that news, and explain the any topic which you learned in this course and mention what you learned

### **Note:**

1. Write a Document with on each task along with screenshots and after attack mention the solutions to avoid those attacks
2. Use Only Virtual Machines to perform the tasks
3. Don't try these attacks on real-time environment, we won't be responsible for any misuse
4. Create a New lab with all the Operating system and practice on that
5. Refer Internet resources for solutions and complete the project within given date.