

Vision

To produce globally competitive computer engineers, who are prepared to accept the challenges at professional level, while maintaining the core values.

Mission

- ✓ To create excellent teaching learning environment.
- ✓ To mould engineers with a strong foundation of scientific knowledge and engineering concepts.
- ✓ To enhance the acquired concepts and develop new technology through excellence in research.
- ✓ To assist nation building and elevating the quality of life of the people through leadership in professionalism, education, research and public services.

Programme Educational Objectives (PEO)

- ✓ To educate young aspirants with the fundamentals of engineering and knowledge of latest technologies.
- ✓ To encourage the students to remain updated by pursuing higher degree or certification programs.
- ✓ To assume management and leadership roles to contribute in socio-economic development of the nation.

A.Y. 2023-24, SEMESTER 6

SUBJECT CODE: 102045607

SUBJECT NAME: CYBER SECURITY

INDEX

NAME: _____

ENROLMENT NO: _____ **BRANCH:** Computer Engineering

Sr. No	Name of the Experiment	Page No.	Date	Marks	Signature
01	Introduction Virtualization Environment configuration and Cyber Lab setup (Kali, VM ware and Oracle VirtulBox).				
02	Information Gathering using NMAP framework and study about port scanning.				
03	Understand packet capturing tool wireshark or Ethercap and analysis of those packets.				
04	Using open port information perform MITM(Man In The Middle) attack using arpspoof, urlsnarf, driftnet. 1. Interruption 2. Interception				
05	Understand the concept of firewall and configure the Statefull Packet Inspection(SPI) firewall IPTABLES.				
06	BASIC configuration of Intrusion Detection System: Snort.				
07	Network vulnerability assessment using OpenVAS/Necuss Framework.				
08	Demonstrate automated SQL injection with SqlMap.				
09	Demonstrate Application Injection using Zed Attack Proxy.				
10	Perform web application testing using DVWA . 1. Perform Manual SQL injection 2. XSS using DVWA				
11	Perform brute force attack using John the RIPPER.				



G.H. Patel of College of Engineering and Technology
Department of Computer Engineering

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1	Assignment I				
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