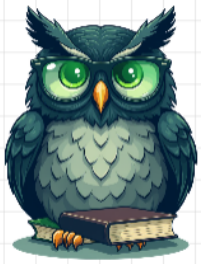
Email: info@genzscholars.in Website: https://genz-vert.vercel.app/



GenZscholars

4-Week Cybersecurity Training Program from Gen Z scholars

Goal:

Equip students with foundational cybersecurity knowledge, hands-on skills in ethical hacking, network security, and secure coding, with mini-projects and assessments.

Week 1: Introduction to Cybersecurity & Fundamentals

Day	Topic	Activity
1	Orientation + Importance of Cybersecurity	Presentation & Discussion
2	Cyber Threats: Malware, Phishing, Ransomware	Case Study: Famous attacks
3	CIA Triad: Confidentiality, Integrity, Availability	Group Discussion
4	Networking Basics for Security (IP, TCP/UDP, DNS)	Packet Tracing Lab
5	Firewalls, VPNs, IDS/IPS	Hands-on Demo with Firewalls
Saturday	Mini-project: Set up a Basic Firewall Rule	Practical
Sunday	Quiz 1 + Weekly Review	Test + Feedback

Week 2: System Security and Ethical Hacking Basics

Day	Topic	Activity
1	Introduction to Ethical Hacking	Ethical Hacking Lab
2	Footprinting and Reconnaissance	Hands-on: Use tools like Nmap
3	Scanning Networks	Wireshark Basics
4	Vulnerability Assessment Basics	Demo: Nessus or OpenVAS
5	Linux for Hackers (Kali Linux, Terminal Commands)	Hands-on Kali Linux Basics
Saturday	Mini-project: Perform Basic Network Scan	Report Submission
Sunday	Quiz 2 + CTF Challenge (small)	Capture The Flag

Week 3: Web and Application Security

Day	Topic	Activity
1	OWASP Top 10 Vulnerabilities	Demo: Broken Web App
2	SQL Injection and Cross-Site Scripting (XSS)	Hands-on Attack Simulation
3	Secure Coding Practices	Short Coding Exercise
4	Authentication and Session Management	Design secure login systems
5	Introduction to Cryptography (Hashing, Encryption)	Hands-on Encryption Lab
Saturday	Mini-project: Find and Report Web Vulnerabilities	Bug Report Exercise

Sunday	Quiz 3 + Cyber Puzzle Game	Test + Fun Activity

Week 4: Cyber Defense, Career Paths, and Final Project

Day	Topic	Activity
1	Incident Response and Forensics	Case Study
2	Cybersecurity Tools (SIEM, SOC, EDR Basics)	Splunk or Open-Source SIEM Demo
3	Career Opportunities in Cybersecurity	Resume Building Workshop
4	Project Day 1: Problem Statement Discussion	Divide into teams
5	Project Day 2: Solution Implementation	Mentor Guidance
Saturday	Final Project Presentations	Group Presentation
Sunday	Certificate Ceremony + Feedback	Closing

Additional Details:

- Daily Hours: 2-3 hours per day.
- Tools Covered: Kali Linux, Wireshark, Burp Suite, Nessus/OpenVAS, Splunk (or similar open-source).
- Certifications: Participation + Final Project Certificate
- Outcome: Students will understand cyber attacks, defense strategies, and basic ethical hacking skills.