

## Cybersecurity Curriculum

### 1st Sprint

- Introduction To Cyber Security
- Networking Introduction - reading
- Linux Security Basics
- Passive Reconnaissance
- Active Reconnaissance
- Packets and Frames - reading
- Nmap Live Host Discovery
- Wireshark Basics
- Web Fundamentals
- OWASP Top 10
- BurpSuite - Fundamentals
- SQL,noSQL Injection
- Content Discovery
- Upload Vulnerability
- Cryptography Basics
- Permissions, SUID & SGID
- Mandatory Access Control
- Protocols & Servers
- Offensive vs Defensive Security
- Forensic Ethics & Methodologies

### 2nd Sprint

- Nmap Advanced Port Scans
- Insecure Direct Object Reference
- File Inclusion
- Command Injection (CVE-2021-44228 Explained)
- Buffer Overflow
- Web Application Fast Incident Response
- Web Application Forensics
- Nmap Post Port Scan & Scripting
- Server-Side Request Forgery
- Understanding vulnerabilities - Reading
- Understanding vulnerabilities - Exploitation
- CVE, CWE, and NVD
- Nessus
- Ruby Scripting (Cyber)
- Metasploit -basics
- Metasploit - Scripting
- Advanced Web Attack Techniques
- Active Directory - Fundamentals
- Active Directory - Enumeration
- Active Directory - Exploitation
- Active Directory - Forensics
- Active Directory -Hardening

### 3rd Sprint

- What the shell ?
- Linux Privilege Escalation
- Windows Privilege Escalation
- Access Persistence Techniques
- Reverse Engineering Fundamentals
- Static Analysis in Reverse Engineering
- Dynamic Analysis in Reverse Engineering
- Malware Analysis in Reverse Engineering
- Mobile Application Fundamentals and Security
- Static Analysis In Mobile Security
- Dynamic analysis In Mobile Security
- Ethics in Cybersecurity
- ISO 2700X
- NIST
- General Data Protection & Privacy



## Certifications that can be passed after each module

	Modules	Sprint	Goal Certification			
1	Network Security Basics	1	CompTIA Security+ /eJPT	Certified Ethical Hacker (CEH)	Offensive Security Certified Professional (OSCP)	Offensive Security Certified Expert(OSCE)
2	Linux Security	1	CompTIA Linux+			
3	Web Application Security Basics	1				
4	Network Security Advanced	2	CompTIA Network+ Cisco CCNA			
5	Privilege Escalation & Shells	2				
6	Web Application Security Advanced	2	Certified Web Application Penetration Tester (GWAPT)	Offensive Security Certified Web (OSWE)	Certified Information Systems Security Professional(CISSP)	
7	Windows Active Directory Security	3	GIAC Certified Windows Security Administrator (GCWN)			
8	Reverse Engineering	3	Certified Reverse Engineering Analyst (CREA)			
9	Cybersecurity Laws & Ethics	3	Certified Information Privacy Professional (CIPP)			

