

Course: Cyber Security

| SN. | Course Content | Course Topic |
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| 1 | Threat Management | <p>CIA Triad ,Risk Consideration & Risk Assessment, Identify Threat ,Vulnerability ,Likelihood impact and Risk, Qualitative & Quantitative Assessments,</p> <p>Network Segmentation, Network Access Control, Defense Deception Method, Secure Endpoint Management, Penetration Testing, Security Exercizes and Training, Reverse Engineering ,Defense Against Cyber Threats ,</p> <p>Reconnaissance and Intelligence, Footprinting & Network,Network Mapping, Port Scanning,NMAP, Passive Recon, DHCP /SYS/Firewall logs & Configs,DNS harvesting,DNS zone transfer,WHOIS & information gathering,</p> |
| 3 | Vulnerability Management | <p>Regulatory Requirements,Corporate Requirements, Scanning Tools ,Scoping Scans ,Configuring Scans, Scanning Sensitivity,Scanning Perspective ,Authenticated Scanning,Maintaining Scanners ,</p> <p>Standardizing Vulnerabilities,Workflow for Remediation Vulnerability Reporting,Remediation Priority,Implementing and Testing ,Nessus Vulnerability Scanner: A Walkthrough ,Interpreting Scan Results ,Interpreting CVSS,Calculating the CVSS Score ,CVSS Temporal Score ,Validation of Results ,Common Vulnerabilities</p> |



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| | | Course: Server and Host Vulnerabilities ,Network Vulnerabilities Virtualization Vulnerabilities ,Web Application Vulnerabilities Internet of Things (IoT) Vulnerabilities, |
| 3 | Cyber Incident Response | Security Incidents,Incident Response Teams ,Incident Response Phases ,Incident Response Policy and Procedures ,Communication and Info Sharing Incident Classification Network Event Monitoring,Network Monitoring Tools Detecting Network Events,Network Probes and Attacks Server and Host Events,Service and Application Events Digital Forensics,Forensic Toolkit Components, Mobile Forensic Toolkits ,Forensic Software, Forensic Investigation Process ,Disk Imaging, Disk Imaging Using dd ,Disk Imaging Using FTK Imager Incident Containment,Eradication and Recovery Finishing the Response |
| 4 | Security Architecture & Toolset | Security Architecture and Tool Sets ,Policy Documents Standard Frameworks ,Policy-based Controls Audits and Assessments ,Laws and Regulations ,Defense in Depth Types of Controls ,Layered Network Defense,Layered Host Security Data Analytics ,Personnel Security,Outsourcing Concerns User Awareness Training ,Analyzing Secure Architectures Identity as a Service (IDaaS) ,Securing Authentication and Authorization System ,Credential Theft,Identity Exploits |



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| | | <p>Targeting Account Lifecycle ,Attacking AAA Protocols and Systems ,Threats to Identity Systems</p> <p>Identity Systems,Detecting Identity Attacks ,Federated Identity Systems ,Software Development Life Cycle (SDLC) Software Development Models ,Coding for Security Testing Application Security ,Finding Security Flaws Web Application Vulnerability Scanners</p> |
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