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| **Modules** | **Outcome**  I Can – exemplars(students points of view): |
| * **Module 1: Introduction to Cybersecurity**   + Lesson 1: What is Cybersecurity?   + Lesson 2: Types of Cyber Threats   + Lesson 3: Importance of Cybersecurity   + Lesson 4: Cybersecurity Best Practices | * + I can explain what cybersecurity is.   + I can identify different types of cyber threats.   + I can recognize the importance of cybersecurity.   + I can implement best practices to enhance my online security. |
| * **Module 2: Cyber Threats and Attack Vectors**   + Lesson 1: Malware and Viruses   + Lesson 2: Social Engineering Attacks   + Lesson 3: Phishing and Spear Phishing   + Lesson 4: Denial of Service (DoS) Attacks | * + I can recognize common cyber threats, including malware, social engineering attacks, phishing, and denial of service (DoS) attacks.   + I can understand the tactics and methods employed by cybercriminals. |
| * **Module 3: Cybersecurity Defense**   + Lesson 1: Antivirus and Anti-Malware   + Lesson 2: Firewalls and Intrusion Detection Systems   + Lesson 3: Password Management and Authentication   + Lesson 4: Data Encryption and Privacy | * + I can describe the purpose and functioning of antivirus and anti-malware tools.   + I can explain the role of firewalls in cybersecurity defense.   + I can understand the concepts behind intrusion detection systems.   + I can manage passwords effectively to enhance security.   + I can identify various authentication methods used in cybersecurity.   + I can describe the importance of data encryption in protecting sensitive information.   + I can implement privacy protection measures to safeguard personal and organizational data. |
| * **Module 4: Network Security**   + Lesson 1: Network Security Fundamentals   + Lesson 2: Wireless Network Security   + Lesson 3: VPNs and Secure Communication   + Lesson 4: Securing IoT Devices | * + I can gain a comprehensive understanding of network security fundamentals.   + I can grasp the principles of wireless network security.   + I can configure and manage virtual private networks (VPNs).   + I can implement security measures for IoT (Internet of Things) devices.   + I can apply various strategies to safeguard networks against cyber threats. |
| * **Module 5: Network Rules, Types and Services**   + Lesson 1: ISP, LAN, WAN, WLAN, Peer-to-Peer   + Lesson 2: DHCP, DNS, HTTP, FTP, SMTP   + Lesson 3: TCP/IP (IPv4, IPv6)   + Lesson 4: Cloud and Network hosted services, SaaS, IaaS etc | * + I can proficiently identify and explain key concepts related to network rules, types, services, and protocols, including:   + LAN, WAN, and WLAN.   + DHCP, DNS, HTTP, FTP, SMTP.   + TCP/IP, IPv4, and IPv6.   + I can understand cloud and network-hosted services such as SaaS and IaaS. |
| * **Module 6: Technical Support Fundamentals**   + Lesson 1: Troubleshooting Methodology   + Lesson 2: Hardware Troubleshooting   + Lesson 3: Software Troubleshooting   + Lesson 4: User Support and Communication Skills | * I can acquire troubleshooting skills and methodologies for both hardware and software issues.   + I can develop effective user support and communication skills.   + I can assist individuals with technical problems. |
| * **Module 7: Operating Systems and Software**   + Lesson 1: Introduction to Operating Systems   + Lesson 2: Software Installation and Updates   + Lesson 3: System Optimization and Maintenance   + Lesson 4: Remote Desktop Support | * + I can demonstrate a solid understanding of operating systems.   + I can proficiently install software on a computer system.   + I can effectively perform software updates on a computer.   + I can optimize a computer system for better performance.   + I can maintain a computer system to ensure its smooth operation.   + I can provide remote desktop support to assist users with technical issues. |
| * **Module 8: Ethical and Legal Aspects of Cybersecurity**   + Lesson 1: Cybersecurity Ethics   + Lesson 2: Legal Frameworks and Compliance   + Lesson 3: Intellectual Property and Copyright   + Lesson 4: Privacy and Data Protection | * + I can gain insights into ethical considerations in cybersecurity.   + I can understand the legal frameworks and compliance requirements in cybersecurity.   + I can comprehend issues related to intellectual property and copyright in the digital world.   + I can appreciate the importance of privacy and data protection in the digital world. |
| * **Module 9: Introduction to programming language (C++)**   + Lesson 1: What is programming? Structure of C++ program   + Lesson 2: Variables & Data Types   + Lesson 3: Input & Output, Basic Operators   + Lesson 4: Control Structures(if, else and switch), Loops(while, for, do-while)   + Lesson 5: Arrays   + Lesson 6: Introduction to Functions   + Lesson 7: Function parameters & return values, Functions overloading | * + I can explain the concept of programming and understand the structure of a C++ program.   + I can define variables and understand different data types in C++.   + I can perform input and output operations and work with basic operators in C++.   + I can create and use control structures such as if, else, and switch statements, as well as loops including while, for, and do-while loops.   + I can work with arrays in C++.   + I can introduce and define functions in C++.   + I can handle function parameters and return values, and understand the concept of function overloading in C++. |

**Necessary Software & Tools:** *Cisco Packet Tracer, Code-blocks, online tools and online compiler.*