



# SIIMT University College

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## DIPLOMA IN CYBER SECURITY – PART 3

### COURSE CONTENT

CERTIFIED NETWORK SECURITY EXPERT (CNSE - LEVEL 2)	
Module	Topic
Module 1:	Network Topology
Module 2:	Open Systems Interconnectivity Model
Module 3:	TCP/IP In-depth
Module 4:	WAP, NAT, DNS and ICMP
Module 5:	Internet Routing
Module 6:	Advanced Port Scanning
Module 7:	Sniffing Attacks
Module 8:	Masquerading Attacks
Module 9:	Advanced DOS and DDOS
Module 10:	Session Hijacking Attacks
Module 11:	Network Operations Centre – Security
Module 12:	Network Traffic Analysis
Module 13:	Network Vulnerability Assessment
Module 14:	Network Penetration Testing
Module 15:	Intrusion Detection System
Module 16:	Snort 101

<b>Module 17:</b>	OSSEC 102
<b>Module 18:</b>	Intrusion Prevention System
<b>Module 19:</b>	Firewalls (Installation, Configuration and Usage)
<b>Module 20:</b>	OS Hardening for Networks – Linux and Windows
<b>Module 21:</b>	Cryptography – Introduction
<b>Module 22:</b>	Symmetric Key Encryption
<b>Module 23:</b>	Asymmetric Key Encryption
<b>Module 24:</b>	Hash functions
<b>Module 25:</b>	Trust Models
<b>Module 26:</b>	VLAN – Security
<b>Module 27:</b>	VPN – Security
<b>Module 28:</b>	Wireless Networks – Introduction
<b>Module 29:</b>	Radio Frequency Essentials
<b>Module 30:</b>	Wireless Security – Basics
<b>Module 31:</b>	Wireless Threats
<b>Module 32:</b>	Attacking Wireless Hotspot and Security
<b>Module 33:</b>	WEP Security
<b>Module 34:</b>	WPA/WPA2 Security
<b>Module 35:</b>	Secure Wireless Infrastructure Deployment
<b>Module 36:</b>	DNS Tunneling
<b>Module 37:</b>	Network Forensic Methodology
<b>Module 38:</b>	Network Evidence Acquisition
<b>Module 39:</b>	OS Logs and Splunk
<b>Module 40:</b>	Summary