



NUST



COURSE CONTENTS

**DURATION: TOTAL 24 HOURS
2HRS CLASS X 12 SESSIONS.**

**CLASS ON EVERY SATURDAY,
3 MONTHS**

**INSTRUCTOR
ENGR. FARIZA SHAHID**

Contents of Module 01

- * Threat Intelligence
- * System Hardening.
- * Privilege Escalation
- * Lateral movement.
- * Incident Response Steps
- Type of Logs.
- * Protocol Logs
- * Windows Logs.
- * Common Event IDs and Their Descriptions
- * Phishing Emails
- * Identifying Phishing Emails.
- * Email Flow
- * Activities That Indicate Malicious Behavior.
- * Defensive Measures and Detection Strategies
- * SMB, Digital Certificates
- * SIEM Solutions.
- * Definitions related to cyber
- * Example of common security vulnerabilities
- * Attacks.
- * Senarios of Attacks

Contents of Module 02

- * Network/OSI Model/TCP/UDP
 - * Network Layer
 - * Hub Router/Switches
- * Introduction to Firewall and its types
 - * Can firewall be hacked?
- * Difference Between Traditional, UTM and NGFW/NGAFW
- * Firewall brands in Pakistan and International world
- * Firewall Market trends and technology analysis
 - * Firewall Rules/ Firewall Configuration
- * Components of Firewalls/Benefits of Firewall
 - * How to create SDWAN through Firewall
 - * Importance of Firewall
 - * What is proxy Firewall
 - * Best Practices of Firewall
- * Use Cases of Firewall in Current Industry
 - How to do sizing of Firewall



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