National Academy Of Cyber Security

Certificate in Cyber Security Officer

Topics Covered

Networking

Introduction to communication system, issues in computer Networking, Overview of Transmission Media, OSI Layers, TCP/IP Models, Overview Of LAN (local area networks). WAN (wide area networks). Discussion of networking Protocols, Introduction to NAT and PAT, TCP, UDP, IP, ICMP, Bridge, Network TAP, hub, Switch, router

Web browsers & it's Concerns

Introduction to web browsers, types of desktops and mobile browsers, history, functions, features, URLs, search engines, governance, infrastructure, guides etc.

Internet protocols

Introduction to the principal communications protocols; Application layers, Transport Layers, Internet layers, link layer etc., Internet Experiment Note (IEN), Internet Corporation for Assigned Names and numbers (ICANN), functions, history, security

Web Application security

Web application security risks, identifying the application security/ risks, best practices recommendation, security standards, threat risk modelling, OWASP top 10n concepts security technologies.

Security on the Internet

What is Trojan? Trojans attack big famous cases- Types of Trojans- Different way a Trojan can get into a system – how attackers bypass your anti-virus by trojan analysis of trojans/virus-How we remove trojans manually-security against trojans

IT act (Cyber Context)

Introduction to the Information Technology Act, 200, United Nations Model Law on Electronic Commerce 1996 (UNCITRAL), background, summary, sections, case studies etc.

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