

Network & E-security Syllabus:

Objective: To make the police aware about the networks, its use, the need of security through different apparatus & software.

Sessions Per Day are: 4

Day 1:

Session 1: Inauguration, introduction, Registration etc.

Session 2: About Network, Need of networking, Network Designs topology, Type of Networks, Network Protocol, Home networking, Business networking,

Session 3: Wired Networks, Wireless Networks, Networking & Internet.

Session 4: Apparatus of networks router, Switches, cables etc, Network Devices working in a network.

Day2:

Session 1: Virtual Networks, TCP/IP, Servers, server client model, role of servers.

Session 2: Network operating systems, Naming rules of computers in network, Establishing a home network.

Session 3: IP address an introduction, Public IP address, IP Address role in network, Proxy servers, Domain name, DNS,

Session 4: Working with IP Address, sharing of devices in network.

Day 3:

Session 1: Virtual Private network (VPN), its use, VOIP, packet switching,

Session 2: Nodes, network cards (NIC), Intranet, Extranet, Internet understanding & difference,

Session 3: Class of networks A,B, C, Sockets, winsocks, setting static IP address.

Session 4: MAC Address, need of network surveillance, etc

Day 4:

Session 1: Type of Attacks on network, Role of network Administrator,

Session 2: Network security devices, Role of Anti Virus, understanding Anti virus, Virus, worm,

Session 3: Firewall, managing Firewalls, type of firewalls, Software, Hardware, Intelligent Switches, placement of firewall in a network.

Session 4: Precaution when working in network, File Sharing, file transfer software,

Day5:

Session 1: Safety tips for using public computers, securing wireless network, IP security

Session 2: Network layer security, Email security, Multi purpose mail extension (MIME), Application Vulnerabilities, Security Suites,

Session 3: Evaluation/ Test

Session 4: Closing, Certificate Distribution.

Cyber Crime & Forensics:

Objective: to make the police personnel aware about the Cyber Crime, Laws & how to investigate.

Sessions Per day: 4

Day1:

Session 1: Inauguration, registration, introduction of subject etc.

Session 2: definition cyber crime, Type of crimes committed, vulnerable persons, type of attacks.

Session 3: Internet, IP address, MAC Address, Computer Names, Emails and its headers.

Session 4: Understanding about cyber criminals, psychology of criminals, use of emails in cyber crimes, understanding terms in cyber crimes, spoofing, hacking etc

Day2:

Session 1: hacking of wi-fi devices, website hacking, malicious software, computer system hacking, keyboard hacking, mobile hacking.

Session 2: Online password hacking, social media cases, sharing of information on social media, effects of keeping the sensitive data in emails, security of passwords, how to make passwords precautions and method of selecting.

Session 3: email security, IP security, SSL certificates, Firewalls, Anti Virus, Anti malwares,

Session 4: Continued...

Day 3:

Session 1: IT Act of India, Cases of Internet Frauds, sections of IPC, data theft, offences and punishments.

Session 2: Collection, Seizing, Securing, preserving of digital evidence,

Session 3: Introduction to Forensic Tools kit/ FTK Imager/ Registry Viewer/ Copy/Backup/ forensic Duplicator

Session 4: Continued..

Day 4:

Session 1 to Session 4: E- Banking/ online banking/ Credit Card Investigation, Mobile Forensic/ SIM Reading/Evidence in Mobile SIM/ Handset/ Network

Day 5: 4 Sessions

Session 1 & 2: Reporting / Live System/ Captured Ram data/Documentation during Imaging of Digital system

Session 3: Evaluation/Test

Session 4: Closing/ Certificate Distribution

Office Automation and Colour Portrait Building System

Objective: To make the police personnel aware about office automation and sketch preparation of suspect.

Sessions per day: 4

Day 1:

Session 1: Inauguration, Introduction, registration

Session 2: Awareness about office automation, Digitization of documents, Scanning, collection, creation, storing of digital documents, anti virus for safety of stored documents, use of external hard disks, devices, pen drives for keeping data.

Session 3 & 4: Creation of files, use of MS word, typing, using unicode fonts, google typing tool, formatting in file, use of tables, page orientation, printing, copy, download from internet data and its store.

Day 2:

Session 1 to 4: Creation of database in ms excel, use of excel sheets, taking prints, use of formulas, preparing salary data base and chart. practice test

Day 3:

Session 1 & 2: Use of power point for making presentation, converting presentation in pdf for creation of office documents.

Session 3 & 4: Practice of making slides,

Day 4:

Session 1: Introduction of Portrait Building software, Installation of software,

Session 2 to 5: Use of Portrait Building by making sketches of male, female suspect. Module 1 & Module 2 Making of sketches, practice

Session 4: Document Scanning practical, Printing Practical

Day 5:

Session 1 & 2: Basic network, Internet, Intranet, VPN, emails, downloads.

Session 3: Evaluation/ test

Session 4 : Closing, Certificate Distribution.

Basic IT & PC Trouble Shooting

Objective: To impart police personnel about the basics on computer working and PC trouble shooting.

Day Per Sessions: 4

Day 1:

Session 1: Inauguration, registration and introduction.

Session 2: Basic computer knowledge, external internal parts, audio, printers, scanners, storage devices,

Session 3: Laptop and its components, Ports, PC Start Process, BIOS, settings & trouble shooting

Session 4: Microprocessors, Memory, Power supply, motherboard, cables.

Day 2:

Session 1: Installation of windows/OS, troubleshooting of OS installation,

Session 2: Other Driver and software installation and its troubleshooting

Session 3: Managing user accounts, managing files, folders, IP address.

Session 4: Managing disk, drives, backup of data, Anti-virus, networking, sharing, troubleshooting through anti-virus.

Day 3:

Session 1 to 4: MS word, files management, typing, formatting, paragraph, tables, images, selection, printing, scanning, conversion of fonts, using Unicode, conversion of files in pdf, inserting header, footer, smart art, chart, shapes, word art, symbols etc.

Day 4:

Session 1 & 2: MS Excel, adding new sheets, formatting cells, inserting cells, adjusting heights, using formula, using formula tools, cell wraps, orientation of data in a cell, copy, paste in sheets, calling data of one sheet to another.

Session 2&3: MS Power point, use of ppt, making slides, adding text, adding images, adding tables, adding animation etc.

Day 5:

Session 1: Internet, google tools, Police website, emails, attaching files etc.

Session 2: Practice and revision

Session 3: Evaluation/ test

Session 4: Closing/ certificate distribution.