

# Cyber Security

## Cyber Security:

- ✓ Cyber security refers to the technologies and processes designed to protect computers, networks and data from unauthorized access, vulnerabilities and attacks delivered via the Internet by cyber criminals.
- ✓ Cyber security is important for network, data and application security
- ✓ Protecting organization communication media, technology, and content.
- ✓ Protection of networking components, connection and content.
- ✓ Protection of information and its critical elements, including the systems and hardware that use, store or transmit that information.
- ✓ Internet security is a branch of computer security specifically related to the Internet. Its objective is to establish rules and measure to use against attacks over the Internet.

## Cyber Crime:

- ✓ Crime committed using a computer and the internet to steal data or information.
- ✓ Illegal imports
- ✓ Malicious programs.
- ✓ Illegal Interception
- ✓ System Interference
- ✓ Data Interference
- ✓ Misuse of devices

- ✓ Fraud
- ✓ The Computer as a Target
- ✓ The computer as a weapon

## **Types of Cyber Crime:**

- ***Hacking***

Hacking in simple terms means an illegal intrusion into a computer system and/or network.

- ***Denial Of Service Attack***

Act by the criminal, who floods the bandwidth of the victims network.

Is his e-mail box with spam mail depriving him of the services.

- ***Virus Dissemination***

Malicious software that attaches itself to other software. (Virus, worms, Trojan Horse, web jacking, e-mail bombing etc.)

- ***Computer Vandalism***

- ✓ Damaging or destroying data rather than stealing.
- ✓ Transmitting virus

- ***Cyber Terrorism***

- ✓ Use of Internet based attacks in terrorist activities.
- ✓ Technology savvy terrorists are using 512-bit encryption, which is impossible to decrypt.

- ***Software Piracy***

- ✓ Theft of software through the illegal copying of genuine programs.
- ✓ Distribution of products intended to pass for the original.

## **Advantage of Cyber Security**

- ✓ It will defend from hacks and virus.
- ✓ The application of cyber security used in our PC needs update every week.
- ✓ The security developers will update their database every week once. Hence the new virus also deleted
- ✓ Defend us from critical attacks.
- ✓ Browse the safe website.
- ✓ Internet security processes all the incoming and outgoing data on our computer.

## **Types of Cyber Attack by Percentage**

- |  |     |
|--|-----|
| ✓ Financial fraud:                       | 11% |
| ✓ Sabotage of data/networks:             | 17% |
| ✓ Theft of proprietary information:      | 20% |
| ✓ System penetration from the outside:   | 25% |
| ✓ Denial of service:                     | 27% |
| ✓ Unauthorized access by insiders:       | 71% |
| ✓ Employee abuse of internet privileges: | 79% |
| ✓ Viruses:                               | 85% |

## **Safety Tips:**

- ✓ Use antivirus software
- ✓ Insert firewalls , pop up blocker
- ✓ Uninstall unnecessary software and Maintain backup
- ✓ Check security settings and use secure connection
- ✓ Stay anonymous - choose a genderless screen name.
- ✓ Open attachments carefully

- ✓ Use strong passwords , don't give personal information unless required
- ✓ Read Privacy policy carefully when you submit the data through internet
- ✓ Learn more about Internet privacy.