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.