

❖ computer security

➤ *hardware security*

- regular maintenance
- insurance
- power regulating devices
 - UPS
 - Volt guard
 - spikes guard
- protection from dust
- from fire
- from theft
- air condition

➤ *information security*

- threats
 - malicious codes
 - ◆ computer virus
 - system or boot infectors
 - file infectors
 - stealth virus
 - macro virus

- ◆ email virus
- ◆ worms
- ◆ trojan horses
- ◆ spyware/adware
- ◆ rootkit
- ◆ ransomware
- ◆ keylogger

- hackers

- phishing

- viral web sites

- social engineering

- protection

- authentication system

- ◆ password

- ◆ biometric

- behavioral biometrics

- physiological biometrics

- firewall

- ◆ hardware firewall

- ◆ software firewall

- **cryptography**

- **symmetric key**
- **asymmetric key**
- **public key**
- **private key**

- **antivirus software**

- **backup**

- **usb flash drives**
- **external hard drives**
- ***backup servers***
- ***cloud storage***