

## ❖ 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***