# Chapter 2 Network technologies

## Unit 1 Networks (Term 2)

### 1 LANs and WLANs

- A computer network is a system of two or more computers or computing devices connected to each other.
- A computing device is any device with computing qualities.
- Devices are connected using a communication channel/medium.

#### 1.1 Definition and purpose

- A LAN covers a small area, such as a room or building. The largest LAN is a campus.
- A WLAN is a LAN that is connected wirelessly.

#### 1.2 Advantages, disadvantages and limitations:

- Facilitating communication – communication is made easier.
- Sharing devices – expensive devices, such as printers, can be shared.
- Centralised storage – all data is stored in one central place.
- Data transfer – easy to transfer without other storage devices.
- Increased security – security rights can restrict access to software and data.
- Installing and updating software – software can be installed from one central point.
- Easier backup – central point makes backup easy.
- Advantages of WLANs include:
  - users can connect from places where cables are difficult to install.
  - mobile computing devices can be moved and stay connected.
- Disadvantages and limitations of a LAN include:
  - initial installation cost is expensive.
  - installing and maintaining a LAN is time consuming.
  - viruses can spread quickly.
  - because computers are interconnected, security breaches may occur.
  - speed on a LAN is limited by the communication channel.
  - connections on a WLAN may be dropped periodically.

### 2 Basic components of a network

#### 2.1 Workstations and servers

- Workstations are computers that users will work on.
- Servers are powerful computers that provide specialised functions on a network.
- Examples of servers include:
  - file servers
  - print servers
  - web servers
  - proxy servers

#### 2.2 Communication medium

A communication medium transfers data from one point to another on a network.

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