

Introduction to Networking Module - LAB 1

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Goals of LAB

- ◆ Get familiar with the Coursework
- ◆ What is a Network?
- ◆ Network Importance
- ◆ Network Components
- ◆ Network Applications

Module Coursework

Assessment Type	Weight
In-Class test	20%
In-Lab Test	20%
Unseen Exam	60%

What is a “Network”?

- ◆ A network is a group of components that are connected together to provide a service.
- ◆ Examples: Internet, Mobile Networks, and Satellite Networks.

Network Importance

- Easy sharing of files, information, and data.
- Easy sharing of expensive devices/resources (for example: 20 PCs would share one printer, instead of have a printer for each PC).
- Voice.
- Video.
- IoT (Internet of Things).

IP Network Components

- End Users:

computer, mobile, IP camera, IP TV, PlayStation (online gaming), and printer, etc.

- Intermediate Devices:

repeater, hub, switch, router, modem, NIC, WAP, firewall, IDS, IPS.

- Connectivity:

Wired using cables and wireless.

IP Network Application

- HTTP (Hyper Text Transfer Protocol).
- FTP (File Transfer Protocol)
- SMTP (Simple Mail Transfer Protocol) and POP3 (Post Office Protocol Version 3).
- Telnet.

Questions?