



**Introduction to Communication and Networking** ⌚ 2 hours of content | Exam

## **1. Introduction and Understanding of Network Fundamentals**

- Basic network concepts
- Basic communication law
- Types of networks:
  - PAN
  - LAN
  - WLAN
  - CAN
  - WAN
- Understanding Client-Server communication
- Understanding Peer-to-Peer communication
  - Introduction to communication protocols and advanced concepts:
  - Web Protocol
  - SMTP protocol
  - FTP protocol
- OSI Model:
  - Application Layer
  - Presentation Layer
  - Session Layer
  - Transport Layer
  - Network Layer
  - Data Link Layer
  - Physical Layer

## **2. Understanding Communication Equipment**

- HUB
- Switch
- Router

## **3. Understanding the TCP/IP Model**

- TCP/UDP Protocols
- Ports and Port Communication
- Socket Communication