

Liverpool John Moores University

Title: COMPUTER AND NETWORK CONFIGURATION

Status: Definitive

Code: **5506TECYPC** (115864)

Version Start Date: 01-08-2018

Owning School/Faculty: Engineering

Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Michael Shaw	

Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 115

Total Learning Hours: 240 **Private Study:** 125

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	56
Practical	56

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Practice	AS1	practical - network build and configuration	25	
Report	AS2	Report – Case Study – technical requirements analysis	25	
Exam	AS3		50	3

Aims

To give an explanation and practical grounding, in the construction and configuration of simple computer hardware, peripherals and networks.

Learning Outcomes

After completing the module the student should be able to:

- 1 Differentiate and construct component parts of a typical computer system.
- 2 Demonstrate loading and configuration of a typical Windows Operating System, and attach a range of peripherals including legacy devices.
- 3 Demonstrate the creation of a simple peer to peer network using Direct Cable Connection
- 4 Demonstrate the creation of a simple LAN Network
- 5 Demonstrate a basic theoretical and practical knowledge of hardware and operating system software, its administration and technical requirements
- 6 Demonstrate basic theoretical and practical Networking skills, its basic administration and technical requirements.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

practical	1	2
Case Study	5	6
Examination	3	4

Outline Syllabus

Working Inside a Computer and Hardware Maintenance
Processors and memory
Data handling: storage and communication
Hardware configuration
Peripheral selection and connection.
Comparative Operating Systems and O/S basics
Network basics: Topologies, Network Connections, and the TCP/IP Protocol suite
OSI model basics
IPv4 and IPv6
Windows Server overview
Managing and monitoring Windows server
Active directory and account management basics
File and Print management basics
Maintaining and troubleshooting a network

Learning Activities

Taught theory and Practical

Course Material	Book
Author	Jean Andrews
Publishing Year	2011
Title	A+ Guide to Managing & Maintaining Your PC

Subtitle	
Edition	7th ed
Publisher	Course Technology
ISBN	

Course Material	Book
Author	Michael Palmer
Publishing Year	2013
Title	Hands-On Networking Fundamentals
Subtitle	
Edition	2nd ed
Publisher	Course Technology
ISBN	

Notes

This module provides a basic introduction to hardware and software configuration and maintenance. It provides a fundamental practical knowledge of computer systems, and networks.