

Networks and Information Systems

Module Information

2022.01, Approved

Summary Information

Module Code	4607TECYPC
Formal Module Title	Networks and Information Systems
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery	
LJMU Partner Taught	

Partner Teaching Institution

Institution Name	
YPC International College (Kolej Antarabangsa YPC)	

Learning Methods

Learning Method Type	Hours
Lecture	36
Tutorial	36

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aime	This module will provide an appreciation of n
Aims	as well as high speed, optical and wireless n

This module will provide an appreciation of modern software systems and their configuration, as well as high speed, optical and wireless networks.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Define the concept of network security and authorisation systems
MLO2	2	Research and test an operating system in a networking environment
MLO3	3	Explain how high-speed networking components function and routing methodologies and strategies
MLO4	4	Evaluate concepts behind wireless networking and apply them to industry and in the home

Module Content

Outline Syllabus	Fundamental data and signalsError detection and error controlOperating System multiplexingHigh speed communications networks: for example Gigabit Ethernet, SDH, MPLSBroadband connections: such as xDSL, FTTH IP protocol suiteRouting: routing strategies, routing protocolsWireless networks: IEEE 802.11 family, Bluetooth, 4G/5GNetwork security – the use of firewalls, encryption and digital certificates. Application performance within networks
Module Overview	
Additional Information	This level 4 module covers the areas of operating systems configuration in a networking environment, high-speed networking and wireless networks

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Group Report	50	0	MLO1, MLO2
Exam	Examination	50	2	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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