

Liverpool John Moores University

Title: Computer Networks
Status: Definitive
Code: **6509ENGSBC** (119422)
Version Start Date: 01-08-2016

Owning School/Faculty: Maritime and Mechanical Engineering
Teaching School/Faculty: The Sino-British College

Team	Leader
Russell English	Y

Academic Level: FHEQ6
Credit Value: 12
Total Delivered Hours: 37
Total Learning Hours: 120
Private Study: 83

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	20
Practical	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Coursework		25	
Exam	exam		50	2
Essay	Coursework		25	

Aims

To provide an introduction to Computer Networks.

Learning Outcomes

After completing the module the student should be able to:

- 1 Discuss various network topologies.
- 2 Explain the properties of various protocols
- 3 Demonstrate an understanding of network security
- 4 Gain knowledge of network traffic and applications.

Learning Outcomes of Assessments

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

Coursework	2				
Exam	1	2	3	4	
Coursework	4				

Outline Syllabus

Network classification: by geographic scale, transmission technology, structure.
Network hardware: Cabling, NICs, Repeaters, Hubs, Bridges, Switches and Routers.
Models: The OSI seven layer model; Internet model.
High and low level protocols: SNMP, TCP/IP, Ethernet (wired and wireless).
Network Security: Secrecy; Authentication; Non-repudiation; Integrity control;
Traffic: typical user applications – expectations and requirements

Learning Activities

A combination of lectures, practical work and tutorials.

Notes

This module is devised for students to gain a fundamental knowledge of computer networks.