Liverpool John Moores University

Title:	NETWORK TECHNOLOGIES
Status:	Definitive
Code:	**5052BUSIS** (108228)
Version Start Date:	01-08-2011
Owning School/Faculty:	Liverpool Business School
Teaching School/Faculty:	Liverpool Business School

Team	Leader
Bill Davies	Y

Academic Level:	FHEQ5	**Credit Value:**	12.00	**Total Delivered Hours:**	25.50
Total Learning Hours:	120	**Private Study:**	94		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	12.000
Tutorial	12.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Individual Coursework	50.0	
Exam	AS2	Multichoice Examination	50.0	1.50

Aims

To familiarise students with the benefits of computer and network technologies within a business environment and to enable them to set up basic network topologies.
To introduce the student to the strategic importance of communications to business.
To develop an ability in formulating communications strategy.

Learning Outcomes

After completing the module the student should be able to:

1 Understand the importance of data communication to business.
2 Make judgements about the cost and benefits of data communications.
3 Make comparative judgements about the different technologies surrounding LAN's WAN's.
4 Introduce TCP/IP concepts and basic design of LAN's using TCP/IP.
5 Be aware of the importance of the emerging international standards relating to communications - including OSI, IEE and other standard making bodies.
6 Undertake, in a group activity, a realistic communications project which demonstrates the students ability to make the best use of the available technologies for a given business context.
7 Critically access future trends relating to Network Operating Systems.

Learning Outcomes of Assessments

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

CW	1	2	3	4	6	7
EXAM	3	4	5			

Outline Syllabus

Concepts - A tour of the basic concept including operating systems, LAN's, WAN's, networks, standards, internet.

Communication - The technical foundations including standards.

TCP/IP - an introduction and overview - including sub netting.

Introduction to NT Networking - Using MS products as a comparative base to look at why O/S's (and the embedded standards) are important to the development of computer communications.

Introduction to: - A Communications Models including, Communication networks, Circuit & Packet switching, Broadcast Networks.

Technical Issues including: - Data transmission, Protocols, Error Correction, Standards revisited.

Security Issues and the Internet.

Introduction to the technical aspects of the Internet.

Learning Activities

Lectures, workshops, tutorials, multi-media material.

References

Course Material	Book
Author	Dean, T
Publishing Year	2005
Title	Network + Guide to Networks
Subtitle	
Edition	4th edition
Publisher	Course
ISBN	

Course Material	Book
Author	Gilbert
Publishing Year	2002
Title	Understanding Data Communications
Subtitle	
Edition	7th edition
Publisher	
ISBN	

Course Material	Book
Author	Casad, J
Publishing Year	2008
Title	Sams Teach Yourself TCP/IP in 24 Hours
Subtitle	
Edition	4th edition
Publisher	Sams Publishing
ISBN	

Notes

A second level module, which seeks to introduce the student to the strategic importance of communications to business. At the semi-technical and conceptual level this module seeks to develop the students to understand and formulate a communication strategy for business. They should be able to setup, and configure a TCP/IP network.