

## Liverpool John Moores University

Title: NETWORK DESIGN & MANAGEMENT  
Status: Definitive  
Code: **6049BUSIS** (108247)  
Version Start Date: 01-08-2011

Owning School/Faculty: Liverpool Business School  
Teaching School/Faculty: Liverpool Business School

Team	Leader
Terry Murray	Y

**Academic Level:** FHEQ6  
**Credit Value:** 24.00  
**Total Delivered Hours:** 61.00  
**Total Learning Hours:** 240  
**Private Study:** 179

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	13.000
Tutorial	13.000
Workshop	35.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Case study based coursework (individual)	50.0	
Report	AS2	Case study based coursework (individual)	50.0	

### Aims

*To enable students to effectively design, deploy and manage an enterprise network infrastructure.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Define a network security strategy and provide policy recommendations for a secure network.
- 10 Implement, set-up and administer Local Area Networks using an enterprise management interface.
- 2 Develop effective network monitoring techniques.
- 3 Design and develop an OSI service and health model and be able to implement a management pack.
- 4 Assess and control network security risks.
- 5 Recognise the importance of Networks to implementing corporate IT strategy.
- 6 Outline a Strategic network roll out plan.
- 7 Identify and analyse critical success factors in an organisation use of networks.
- 8 Make comparative judgments about the different technologies.
- 9 Determine networking requirements.

### Learning Outcomes of Assessments

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

CW	1	2	3	4	5				
CW	4	5	6	7	8	9	10		

### Outline Syllabus

*Defining Module Concepts*

*Inter/Intra and Extranet strategy*

*Techniques for Analysing and Assessing Network Opportunities*

*Determining Networking Requirements*

*TCP/IP revisited*

*LAN's - Principles and components*

*Network Management & Security*

*Future Developments*

*Operations Management 2007 Introduction and overview.*

*Network management tools.*

*Network monitoring tools.*

*Security: hardware solutions, software solutions, people solutions.*

*Introduction to Active Directory Infrastructure*

*Implementing an Active Directory Forest and Domain Structure*

*Implementing an Organizational Unit Structure*

*Implementing User, Group, and Computer Accounts*

*Implementing Group Policy*

*Deploying and Managing Software by Using Group Policy*

*Implementing Sites to Manage Active Directory Replication*

*Implementing the Placement of Domain Controllers*

*Managing Operations Masters*

*Maintaining Active Directory Availability*

*Planning and Implementing an Active Directory Infrastructure*

## Learning Activities

Lectures, workshops, tutorials, multi-media materials. Semester 2 is based on MOC material 2279B.

## References

<b>Course Material</b>	Book
<b>Author</b>	Dean, T
<b>Publishing Year</b>	2002
<b>Title</b>	Network + Guide to networks
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Course
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Whitman, M E
<b>Publishing Year</b>	2003
<b>Title</b>	Principles of Information Security
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Course
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Richards, J, Allen, R and Lowe-Norris, A G
<b>Publishing Year</b>	0
<b>Title</b>	Design and Deployment of Microsoft's Active Directory
<b>Subtitle</b>	
<b>Edition</b>	3rd edition
<b>Publisher</b>	O'Reilly
<b>ISBN</b>	0596101732

<b>Course Material</b>	Book
<b>Author</b>	Active Directory Services for Windows Server 2003 Technical Reference
<b>Publishing Year</b>	0
<b>Title</b>	
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	
<b>ISBN</b>	0-7356-1577-2

<b>Course Material</b>	Book
<b>Author</b>	Active Directory Services for Windows 2000 Technical Reference
<b>Publishing Year</b>	0
<b>Title</b>	
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	
<b>ISBN</b>	0-7356-0624-2

<b>Course Material</b>	Book
<b>Author</b>	Mastering Active Directory for Windows Server 2003
<b>Publishing Year</b>	0
<b>Title</b>	
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Sybex
<b>ISBN</b>	0-7821-4079-3

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## Notes

This module looks at the design and management of corporate networks.