Liverpool John Moores University

Title:	Networks and System Connectivity
Status:	Definitive
Code:	**5079ENG** (116950)
Version Start Date:	01-08-2016

Owning School/Faculty: Electronics and Electrical Engineering
Teaching School/Faculty: Electronics and Electrical Engineering

Team	Leader
Ronan McMahon	Y

Academic Level:	FHEQ5	**Credit Value:**	20	**Total Delivered Hours:**	40
Total Learning Hours:	200	**Private Study:**	160		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20
Practical	20

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	Tech		40	
Technology	Tech		30	
Technology	Tech		30	

Aims

The module expands computer knowledge and introduces the basics of networking.

Learning Outcomes

After completing the module the student should be able to:

1	Demonstrate a theoretical and practical knowledge of server hardware and software; administration and technical requirements
2	Demonstrate a theoretical and practical knowledge of Networking

Learning Outcomes of Assessments

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

Technology	1	2
Technology	1	2
Technology	1	2

Outline Syllabus

Network Introduction : Topologies, Network Connections, Ethernet and the TCP/IP Protocol suite
Network hardware: Cabling, NICs, Repeaters, Hubs, Bridges, Switches and Routers.
The OSI seven layer network architecture.

Server software overview
Active directory and account management basics, Managing users, resources and security
DNS, forests, trees, trusts, Organisational Units

Security : ports, IPsec - encryption, Certificates, firewalls and web access
Threats : Virus, worms, Trojans, spyware, malware

RAID types and applications,
UPS, continuation of service, Asset safety and Computer Audit

Learning Activities

Lectures and lab work

Notes

The module gives students the opportunity to develop their networking knowledge in a variety of situations.