Module Title **Network Management** **Keywords** Network Administration, Network Management, Network Analysers	Reference EN3530 SCQF Level SCQF 9 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved March 2004 Amended August 2011 Version No. 3

This Version is No Longer Current

The latest version of this module is available here

Prerequisites for Module

None.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To provide the student with the ability to understand the management of computer networks

Learning Outcomes for Module

On completion of this module, students are expected to be able to:

Mode of Delivery

The module is taught using a structured programme of lectures, tutorials, practical exercises and student-centred learning.

Assessment Plan

	Learning Outcomes Assessed
Component 1	1,2
Component 2	1,2,3,4

Component two is a closed book examination. (50% weighting).

Component one is coursework which is an extended practical exercise. (50% weighting).

1. Administer user accounts on network servers
2. Install applications on network servers
3. Understand the use of network monitoring tools to analyse and correct network problems
4. Understand the use of network management systems to enable the provision and maintenance of networks

Indicative Module Content

Setting up user accounts on UNIX servers. Running UNIX scripts. User, group, directory and file permissions. Passwords and security issues. Access permissions to directories and files. Use of network analyzers. Fault finding techniques. Network management diagnostic and monitoring tools. CiscoWorks, WireShark, ntop, Fluke, HP Openview, SNMP.

Indicative Student Workload

Contact Hours	Full Time
Lectures	12
Tutorials/Seminars	12
Assessments	14

Directed Study	
Practical exercises	12
Directed Study	25

Private Study

Indicative Bibliography

1. COMER, DOUGLAS E., 2003. Computer Networks and Internets. 4th ed. Upper Saddle River, NJ : Prentice Hall, ISBN 013123627X
2. CLEMM, ALEXANDER, 2006. Network Management Fundamentals, a guide to understanding how network management really works, Cisco Press, ISBN 1-58720-137-2