

Module Title Introduction To Data Networks	Reference EN4535 SCQF SCQF 8 Level SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved July 2009 Amended August 2011 Version No. 2
Keywords Network design, router configuration, Switches, VLANs, Fault finding and testing	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

EN3533 Network Design or equivalent.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To provide the student with the ability to understand the practicalities of requirements analysis, design and implementation of computer networks in the industrial and commercial environment.

Learning Outcomes for Module

Indicative Student Workload

<i>Contact Hours</i>	Full Time
Assessment	10
Lectures	12

<i>Directed Study</i>	
Directed Study	48

<i>Private Study</i>	
Private Study	80

Mode of Delivery

The module is based on a series of lectures supplemented by guest speakers and student research.

Assessment Plan

	Learning Outcomes Assessed
Component 1	3

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

1. Identify the issues involved in developing a requirements analysis document for industry based computer networks.
2. Appraise the methodologies used when designing a network in commercial environments.
3. Evaluate the various designs currently implemented in enterprise networks.

Indicative Module Content

The module is a series of case studies of network design, implementation and maintenance, based on a mixture of lectures, guest speakers, and private research. The lectures will give an insight into the practicalities of designing, implementing and maintaining a network in a commercial environment. Students will also be expected to make their own individual investigations into other enterprise networks.

Component 2	1,2
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Component 2 requires the student to design and document an enterprise network given outline requirements. (70% weighting).

Component 1 is coursework which will consist of a comprehensive report and critical comparison of the design of enterprise networks identified as a result of student research. (30% weighting).

Indicative Bibliography

1. TEARE D., PAQUET C., 2005. Campus Network Design Fundamentals. Cisco Press
2. OPPENHEIMER P., 2004. Top-Down Network Design. 2nd Edition. Cisco Press