

Napier University Undergraduate Module Descriptor

Module Number	<input type="text" value="CO32010"/>	Credit Value	<input type="text" value="15"/>
Module Title	<input type="text" value="Network Operating Systems"/>		
Module Leader	<input type="text" value="Dr William Buchanan"/>		
Department	<input type="text" value="Computing"/>	Date of Approval	<input type="text"/>

Indicative Student Workload [in Notionally Efficient Student Hours (NESH)]

	Contact	Flexible	Weighting of Assessment Components	
Lectures	<input type="text" value="24"/>	<input type="text"/>	Supervised	<input type="text" value="40"/> %
Tutorials / Seminars	<input type="text"/>	<input type="text"/>	Continuous	<input type="text" value="60"/> %
Practical	<input type="text" value="12"/>	<input type="text"/>	Indicative Assessment Catalogue	
Supervised assessment	<input type="text" value="2"/>	<input type="text"/>	(s)	Week
			<input type="text" value="Coursework"/>	<input type="text" value="8-10"/>
Student centred learning	<input type="text" value="112"/>	<input type="text"/>	<input type="text" value="Examination"/>	<input type="text" value="14-15"/>
Other (specify)	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
TOTAL WORKLOAD	<input type="text" value="150"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Timetable Details:

Prerequisite(s) [400 characters, normally module numbers and titles]

Computer Systems II, or equivalent.

Learning Outcomes [maximum 8, contained in 1000 characters]

The main learning outcomes are:

- To provide a foundation on the three main network operating systems: Microsoft Windows, UNIX and Novell NetWare.
- To investigate the component parts of each of the operating systems, especially related to networking, and the main network protocols that they use to intercommunicate, such as TCP/IP, SPX/IPX and NetBEUI.
- To investigate the usage of standard protocols, such as NFS, NIS and DHCP, which provide network services, such as IP address allocation, networked file systems and network logins.

Description of Module Content [maximum 100 words contained in 600 characters]

The main areas covered are:

- **Fundamentals.** NFS, NIS, XDR, RPC, TCP/IP, Process Control/Scheduling.
- **Novell NetWare.** SPX/IPX, NetWare 3, NDS, Bindery, VLMs, Time Synchronisation.
- **Microsoft Windows.** Registry, Device Drivers, Configuration Manager, Virtual Machine Manger, Multitasking/multithreading, NetBEUI, TCP/IP, Peer-to-peer, NDIS, INF.
- **Windows NT/2000.** Workgroups/Domains, Server/Workstation, File Systems, Administrative Tools, Policy Editor, User Manager, NT architecture.
- **Naming servers.** WINS, DNS, Bootp and DHCP.

Notes [maximum 240 characters]

Buchanan WJ, "Distributed Systems and Networks", McGraw-Hill, 2000, ISBN 0-077-09583-9.
Buchanan WJ, "Mastering Microsoft Windows, Novell NetWare and UNIX", Macmillan, 1999. ISBN 0-333-748053.