



MODULAR PROGRAMME  
ASSESSED COURSE-WORK SPECIFICATION

**Module Details:**

Module Code: <b>UFSEHX-20-2</b>	Module Title: <b>Computer Networks &amp; O/S</b>	
Module Leader:	<b>Nigel Gunton</b>	
Module Tutors: <b>John Counsell</b> <b>Nigel Gunton</b>	<b>Ian Johnson</b>	
Assignment <b>CW1</b>	Element Number: Weighting <b>1 25%</b>	Total Assignment Time: <b>12++ hrs</b>

**Dates:**

Date assignment issued to students: <b>wb Oct 27th '04</b>	Date for return of marked work: <b>wb May. 9 '05</b>
Submission Place: <b>post-box in N foyer, below the North stairs</b>	Date of Submission: <b>16th Dec. 04</b>
	Time of Submission: <b>10.00am</b>

**Deliverables:**

<b>As listed on the Assignment spec sheet</b>
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## Overview:

This assignment is based on the Gnu/Linux installation worksheet available from [http://www.cems.uwe.ac.uk/~ngunton/worksheets/slackware\\_jaz.pdf](http://www.cems.uwe.ac.uk/~ngunton/worksheets/slackware_jaz.pdf) and the example logbook/question sheet from <http://www.cems.uwe.ac.uk/~ngunton/worksheets/mannheim.pdf>.

The assignment is a group assignment with group size being 4±1.

## Requirements:

Each team must complete a log book based on the worksheet. All team members must participate in keeping the log and in completing the activities. The log should contain dated entries showing what was done and what the results were. Brief additional comments or explanations of the activities will be beneficial.

You must ensure that your lab tutor signs the log book as evidence that each phase has been demonstrated or completed.

## Deliverables:

- 1) A well presented group log that identifies the team, the machine name and IP address. The log should also include the root password and any BIOS password(if set). This log should also identify the relative contribution of team members where there has been unequal support. **Maximum word count 2500.** The word count must be stated on the front sheet. 4% will be deducted if the word count is not shown.

### The following tasks must be completed and recorded in the logbook.

- a) installation of linux and identification of the hardware being used.

Install log	- 40 marks
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- b) setup of network interface and testing of the interface by the use of  
`ifconfig, ping, arp`  
to verify the network activity. Change of IP address, editing of the hosts file. Dynamically taking the network interface down and back up to establish the new address. This should be followed by further testing to show the new IP address.

Initial testing	- 5 marks
New IP test	- 5 marks
  
- c) Creation of user accounts and the testing of them

Evidence in logs	- 5 marks
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- d) NFS
  - i) mounting remote file systems and installing packages from the remote filesystem.
  - ii) Set up nfsd and export part of your file system to another team. Import from another team. Edit the exports file correctly and use restrictions on the exports. ie. Do not use promiscuous mode.

log reports	- 10 marks
Exports file	- 5 marks

The use of appropriate unix tools throughout should be documented

**CONTINUED OVERLEAF**

**One of the following must also be attempted and documented**

**Either**

e) FTP access to your machine. This should include the use of `chroot`. You should provide anonymous ftp access and have files that can be retrieved.

or

f) Httpd with web pages to export.

The above options must include the setting up of automatic logging of access attempts. The log-files should be included in your log.

Logs, config files etc.

- 30 marks