

Liverpool John Moores University

Title: OPERATING SYSTEMS DESIGN
Status: Definitive
Code: **5551NCCG** (129514)
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics
Teaching School/Faculty: Nelson Campus

Team	Leader
Robert Askwith	Y
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Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 60
Total Learning Hours: 200 **Private Study:** 140

Delivery Options

Course typically offered: S1, S2 and NS2 (S2 for Jan)

Component	Contact Hours
Lecture	60

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	Assignment	Assignment	50	
Exam	Exam	Written Exam (90 mins)	50	

Aims

This module introduces students to different operating systems such as Windows, UNIX and Linux. The topics covered are the tasks of operating systems such as controlling and allocating memory, prioritising system requests, controlling input and output devices, facilitating data networking and managing files, including security and protection

Learning Outcomes

After completing the module the student should be able to:

- 1 Investigate different Operating Systems, their functions and user interfaces
- 2 Explore the processes managed by an Operating System
- 3 Analyse appropriate techniques and technologies used in distributed and concurrent systems.
- 4 Analyse and evaluate the security features of different operating systems

Learning Outcomes of Assessments

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

Assignment	1	2
Written Exam	3	4

Outline Syllabus

The history and evolution of operating systems

Operating Systems Management: memory management, job scheduling, process scheduling, concurrent processing, device management, file management, scripting.

Evaluation of different Operating Systems' environments, including Distributed Operating Systems and Concurrent Operating Systems.

Operating Systems administration

Learning Activities

Lectures

These will not normally be traditional didactic lectures in which the student plays little active part, but will be delivered in small groups of up to 20

Notes

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