

## Liverpool John Moores University

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Title: Computer Systems  
Status: Definitive  
Code: **4001SEQR** (129295)  
Version Start Date: 01-08-2021

Owning School/Faculty: Computer Science and Mathematics  
Teaching School/Faculty: Oryx Universal College WLL

Team	Leader
Syed Naqvi	Y

**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 46  
**Total Learning Hours:** 200      **Private Study:** 154

### Delivery Options

Course typically offered: S1 & S2 & Summer

Component	Contact Hours
Lecture	22
Practical	22

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Series of Tasks	50	
Exam	AS2	Examination	50	2

### Aims

*To provide an understanding of the underlying computing platform (hardware, operating systems, network) upon which applications are developed and hosted.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the fundamental principles underlying the operation of modern computer systems.
- 2 Demonstrate a knowledge of the structure and organization of computer systems.
- 3 Explain the role and the functions of an operating system.
- 4 Explain the fundamental concepts involved in computer networking.

### **Learning Outcomes of Assessments**

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

Series of Tasks	2	3	
Examination	1	3	4

### **Outline Syllabus**

*Data:*

*Data representation*

*Files and filesystems*

*Devices:*

*Architecture*

*Memory*

*Input/output devices*

*Embedded systems*

*Storage and RAID*

*OS:*

*Processes/threads*

*Scheduling*

*Concurrency/concurrency control*

*Memory management*

*Command line and shell*

*Networks:*

*Infrastructure*

*IP networks*

*IP addressing*

*Wireless networks*

### **Learning Activities**

Formal theory will be introduced via lectures and practical knowledge will be acquired via tutorials, practicals, and coursework.

### **Notes**

This module is intended to provide basic knowledge in relation to the computing

platform (hardware, operating systems, networks), which students will need as support knowledge for subsequent modules at FHEQ 5 and 6.