

Liverpool John Moores University

Title: Computer Systems
Status: Definitive
Code: **4201COMP** (127962)
Version Start Date: 01-08-2021

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

Team	Leader
Syed Naqvi	Y
Denis Reilly	

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

Delivery Options

Course typically offered: Semester 1

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	1	2	
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.