

**Summary Information**

<b>Module Code</b>	4210COMP
<b>Formal Module Title</b>	Fundamentals of Information Systems
<b>Owning School</b>	Computer Science and Mathematics
<b>Career</b>	Undergraduate
<b>Credits</b>	20
<b>Academic level</b>	FHEQ Level 4
<b>Grading Schema</b>	40

**Module Contacts****Module Leader**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
Daniel Doolan	Yes	N/A

**Module Team Member**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
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**Partner Module Team**

<b>Contact Name</b>	<b>Applies to all offerings</b>	<b>Offerings</b>
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**Teaching Responsibility**

<b>LJMU Schools involved in Delivery</b>
Computer Science and Mathematics

**Learning Methods**

<b>Learning Method Type</b>	<b>Hours</b>
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Lecture	22
Practical	22

### Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks

### Aims and Outcomes

<b>Aims</b>	To introduce the concepts of information systems To examine the various hardware and software components of information systems To develop skills in designing and building information systems To understand the planning and management of information systems To explore the uses and impact of information systems.
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### Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Identify the need and use of information systems.
MLO2	Describe the components of an information system.
MLO3	Describe the development processes of building an information system.
MLO4	Describe the basic concepts of information system management.

### Module Content

<b>Outline Syllabus</b>
Fundamentals - Need for information in decision making - Basic concepts: data, information, knowledge and metadata - Categories of information based on source, nature and level- Organising data and information: structured, semi-structured and unstructured informationInformation Systems - Components: people, hardware, software, communication and data - Types of information systems: data processing systems, management information systems, decision support systems, executive information systems - Functions of information systems: gathering, storing and processing data and outputting informationBuilding Information Systems - Information systems development: analysis, design, implementation, testing and maintenance - Databases and data warehouses - Methodologies: structured, data flow, object-oriented- Telecommunications and networksUses - Business systems - Planning, strategy and management - Decision making - Impact of information systems

### Module Overview

This module introduces you to the concepts of information systems. You will examine the various hardware and software components of information systems whilst developing skills in designing and building information systems. Furthermore, you will develop your understanding of the planning and management of information systems whilst exploring their uses and impact.

### Additional Information

This module is intended to provide basic knowledge in relation to computer systems development, which students will need as support knowledge for subsequent modules at FHEQ 5 and 6

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Information Systems Report	50	0	MLO1, MLO2
Technology	Design Model	50	0	MLO4, MLO3