Fundamentals of Information Systems

Module Information

2022.01, Approved

Summary Information

Module Code	4510COMECA
Formal Module Title	Fundamentals of Information Systems
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

Partner Teaching Institution

Institution Name
Education Centre of Australia Pty Ltd

Learning Methods

Learning Method Type	Hours
Online	44

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-PAR	PAR	September	12 Weeks

Aims and Outcomes

Aims	To introduce the concepts of information systemsTo examine the various hardware and software components of information systemsTo develop skills in designing and building information systemsTo understand the planning and management of information systemsTo explore the uses and impact of information systems.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify the need and use of information systems.
MLO2	2	Describe the components of an information system.
MLO3	3	Describe the development processes of building an information system.
MLO4	4	Describe the basic concepts of information system management.

Module Content

Outline Syllabus	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 unstructuredinformationInformation 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 andmaintenance- 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	
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)	Module Learning Outcome Mapping
Presentation	Information Systems Report	50	0	MLO1, MLO2
Report	Design Model	50	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Mark Taylor	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
Contact Name	Applies to all offerings	Offerings