Information Systems Development

Module Information

2022.01, Approved

Summary Information

Module Code	5213COMP
Formal Module Title	Information Systems Development
Owning School	Computer Science and Mathematics
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Computer Science and Mathematics

Learning Methods

Learning Method Type	Hours
Lecture	22
Tutorial	22

Module Offering(s)

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

Aims and Outcomes

Aims	To provide an understanding of the underlying principles of systems analysis and design.

After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Apply the underlying principles of systems analysis and design.
MLO2	2	Apply different systems analysis and design methodologies.
MLO3	3	Differentiate between the logical and physical design process.
MLO4	4	Apply the concepts of object orientation within software systems analysis and design.

Module Content

Outline Syllabus	Process overview: Traditional and contemporary systems development lifecycles and management including waterfall, prototyping and agile approaches such as DSDM. Pre-analysis phase: Investigation, information gathering, feasibility studies. Analysis phase: Requirements capture, prototyping, analysis and specification (structured techniques such as DFDs, ERM; object-oriented techniques such as UML use cases, activity diagrams and class diagrams). Object-oriented analysis and design.Logical design, Physical design, Architectural design (component diagrams, deployment diagrams); Usability issues: HCI and prototyping. Post implementation phases: System testing, installation, training and maintenance.
Module Overview	This module enables you to explore the theories and practical application of systems analysis and design techniques with particular emphasis on object-oriented analysis and design and its role in software development.
Additional Information	This module explores the theories and practical application of systems analysis and design techniques with particular emphasis on object-oriented analysis and design and its role in software development.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Systems Analysis and Design	100	0	MLO1, MLO2, 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