

### Summary Information

Module Code	5513COMECA
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
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 provide an understanding of the underlying principles of systems analysis and design.
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**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	
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
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