

Module Information

2022.01, Approved

Summary Information

Module Code	5753YCOM
Formal Module Title	Requirements Analysis and Systems Modelling
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
YPC International College (Kolej Antarabangsa YPC)

Learning Methods

Learning Method Type	Hours
Lecture	22
Tutorial	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-PAR	PAR	January	12 Weeks

Aims and Outcomes

Aims	To capture and analyse user requirements.To investigate the theory behind object orientated analysis and design.To design complex systems using various system modelling techniques.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Employ fact-finding techniques in capturing and analysing user requirements
MLO2	2	Apply the processes of object oriented analysis and design using the unified modelling language.
MLO3	3	Apply alternative modelling techniques such as entity relational and object relational mapping.
MLO4	4	Develop system models from a set of user requirements.

Module Content

Outline Syllabus	Introduction to Information Systems.Software Development Life Cycles.Types of Requirements.Fact-Finding Techniques.Analysis Processes and Methodologies.Systems / Data Modelling Concepts.Object Oriented Theory.Object Oriented Analysis & Design.The Unified Modelling Language (Use Case, Activity, Class, Sequence Diagrams).Alternative Analysis Models (Entity-Relational, Object Relational).
Module Overview	
Additional Information	The module will give students an understanding of requirement gathering & analysis along with system analysis & design with the Unified Modelling Language (UML). Students will be exposed to various concepts of system analysis and design as well as various techniques to employ UML as a tool for system development. The students should be able to transfer the skills learnt in this module to other modules on their degree including their final year project.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	Coursework	40	0	MLO1, MLO2
Report	Group Coursework	60	0	MLO3, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Glyn Hughes	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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