

## Module Information

2022.01, Approved

### Summary Information

Module Code	5603TECYPC
Formal Module Title	Systems Modelling and Requirements Analysis
Owning School	Engineering
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	48
Tutorial	24

### 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
Essay	Analysis Coursework	40	0	MLO1, MLO2
Report	Group Design Coursework	60	0	MLO3, MLO4

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Karl Jones	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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