

# Database Design

## Module Information

2022.01, Approved

### Summary Information

Module Code	4605TECYPC
Formal Module Title	Database Design
Owning School	Engineering
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
YPC International College (Kolej Antarabangsa YPC)

### Learning Methods

Learning Method Type	Hours
Lecture	24
Practical	24
Tutorial	18

### Module Offering(s)

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

## Aims and Outcomes

Aims	To provide the student with a thorough grounding in the design, build and querying of databases.
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After completing the module the student should be able to:

### Learning Outcomes

Code	Number	Description
MLO1	1	Discuss the relationships and apply normalization when constructing databases
MLO2	2	Construct SQL statements
MLO3	3	Design forms by using Microsoft Access both with and without wizards
MLO4	4	Create queries in both native Access and SQL syntax
MLO5	5	Produce meaningful reports in various formats and demonstrate how to link to other applications

## Module Content

Outline Syllabus	Introduction to Databases Management System Database Administrative Tasks and Multi-user Environment Normalization Data Modelling Database Application (MS Access) Structured Query Language (SQL) and Set Theory
Module Overview	
Additional Information	This module prepares the students with the essential skills of database development such as data modelling and normalization. Students will also be provided with the knowledge and skills to create a simple database application through the use of MS Access. A hands-on approach will give the students a chance to try out different approaches and methods for creating database. 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
Report	Report	50	0	MLO3, MLO4, MLO5
Exam	Examination	50	2	MLO1, MLO2

## 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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