

## Liverpool John Moores University

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Title: Database Design  
Status: Definitive  
Code: **4605TECYPC** (121709)  
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering  
Teaching School/Faculty: YPC International College (Kolej Antarabangsa YPC)

Team	Leader
Karl Jones	Y

**Academic Level:** FHEQ4      **Credit Value:** 20      **Total Delivered Hours:** 68  
**Total Learning Hours:** 200      **Private Study:** 132

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	24
Practical	24
Tutorial	18

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Technology	AS1	Coursework	50	
Exam	AS2	Examination	50	2

### Aims

*To provide the student with a thorough grounding in the design, build and querying of databases.*

## Learning Outcomes

After completing the module the student should be able to:

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

## Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Report	3	4	5
Examination	1	2	

## 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*

## Learning Activities

Lecture, tutorial and practical sessions. The hands-on practical session will allow student to develop their own database.

## Notes

This module prepares the students with the essential skills of database development such as data modeling 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.