Liverpool John Moores University

Title:	DATABASE DESIGN
Status:	Definitive
Code:	**4505TECYPC** (115855)
Version Start Date:	01-08-2016

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

Team	Leader
Paul Otterson	Y

Academic Level:	FHEQ4	**Credit Value:**	12	**Total Delivered Hours:**	50
Total Learning Hours:	120	**Private Study:**	70		

Delivery Options
Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Practical	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	50	2
Technology	AS2	Assignment – building of database in MS Access as specified in (Integrating Activities: Decisions, Cases, and Practice) case study for later use in YPCMA1034 (Web Site Design)	50	

Aims

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

Learning Outcomes

After completing the module the student should be able to:

1   Show how, why and when databases are used and their practical limitations.
2   Model 'relationships' and apply 'normalization' when constructing databases.
3   Build practical examples in Microsoft Access both with and without wizards.
4   Query in both native Access and SQL.
5   Generate meaningful reports in various formats and how to link to other applications.

Learning Outcomes of Assessments

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

EXAM   1   2   4   5

building of database   2   3   4   5

Outline Syllabus

Object Oriented approach
Databases, Database Objects, Recordsets and Dynasets
Records, Tables, Fields, Data
Visual Design and Properties.
Forms, Queries and Reports.
Normalization, Simple Relationships
Complex Relationships and Joins
Embedded SubForms and SubReports
Web Pages
Macros and Modules.
SQL queries.
Importing, Exporting and linking files.
Compact, Repair and Deployment.

Learning Activities

Lectures and computer laboratory exercises.

Notes

The module is designed to lead students through a structured approach to build databases.
The assignment does not require registration on any other module.