

## Liverpool John Moores University

Title: DATABASE DESIGN  
Status: Definitive  
Code: **4043TECH** (105622)  
Version Start Date: 01-08-2011

Owning School/Faculty: Engineering  
Teaching School/Faculty: Engineering

Team	Leader
Kevin Bains-Johnston	Y

**Academic Level:** FHEQ4      **Credit Value:** 12.00      **Total Delivered Hours:** 48.00  
**Total Learning Hours:** 120      **Private Study:** 72

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24.000
Practical	24.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Group Assignment – case study analysis leading to building of database in MS Access : group 40% : invidual element : 60%	100.0	

### 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:

CW	1	2	3	4	5
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## 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.

## References

<b>Course Material</b>	Book
<b>Author</b>	Copstake S
<b>Publishing Year</b>	2000
<b>Title</b>	Access 2000 in Easy Steps
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Computer Step
<b>ISBN</b>	

<b>Course Material</b>	Book
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<b>Author</b>	Getz K
<b>Publishing Year</b>	2000
<b>Title</b>	Access 2000 Developers Handbook
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	various
<b>Publishing Year</b>	0
<b>Title</b>	Access 2000 database 'books and manuals'
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	
<b>ISBN</b>	

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### Notes

Module designed to lead student through a structured approach to build databases.