Liverpool John Moores University

Title:	DATABASE TECHNOLOGIES 1
Status:	Definitive
Code:	5050BUSIS (108226)
Version Start Date:	01-08-2011
Owning School/Faculty: Teaching School/Faculty:	Liverpool Business School Liverpool Business School

Team	Leader
Terry Murray	Y

Academic Level:	FHEQ5	Credit Value:	12.00	Total Delivered Hours:	26.00
Total Learning Hours:	120	Private Study:	94		

Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	13.000
Tutorial	13.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Coursework	100.0	

Aims

To introduce the students basic UML techniques. To introduce the students to report writing using SQL. To provide the students with the necessary skills to analyzing the business, hardware and software requirements of enterprise database systems using UML.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse a problematic business situation using appropriate UML tools and techniques.
- 2 Apply UML tools and techniques to develop data models.
- 3 Understand and use SQL for the purposes of management reports.
- 4 Understand the characteristics of an Enterprise DBMS.

Learning Outcomes of Assessments

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

CW 1 2 3 4

Outline Syllabus

Database Fundamentals revisited – Normalisation, ER Introduction to UML and OO concepts 1 Introduction to UML and OO concepts 2 Introduction to SQL SQL Case Study Introduction to Enterprise Databases

Learning Activities

The module will be delivered via a series of lectures and tutorials. Lectures will be underpinned by the tutorial sessions where the students will be expected to hone and develop their analytical skills using the UML tools.

References

Course Material	Book
Author	Date, C J
Publishing Year	2000
Title	An Introduction to Database Systems
Subtitle	Addison Wesley
Edition	
Publisher	0-201-38590-2
ISBN	

Course Material	Book
Author	Dusan, P
Publishing Year	0
Title	Microsoft's SQL Sever 2008 A Beginners Guide
Subtitle	
Edition	

Publisher	McGraw Hill
ISBN	978-0-07-154638

Course Material	Book
Author	Shaums Outline Series
Publishing Year	0
Title	UML
Subtitle	
Edition	
Publisher	0-07-709673-8
ISBN	

Course Material	Book
Author	Schmuller, J
Publishing Year	2001
Title	Sams Teach Yourself UML in 24 Hours
Subtitle	
Edition	
Publisher	Sams Publishing
ISBN	0-672-32238-2

Course Material	Book
Author	Microsoft
Publishing Year	0
Title	MOC 2780B Maintaining A Microsoft SQL Server 2005
Subtitle	
Edition	
Publisher	Microsoft Press (This will be given free to Students as part
	of their 2nd semister delivery)
ISBN	

Course Material	Book
Author	Shapiro
Publishing Year	0
Title	SQL Server 2005 The Complete Reference
Subtitle	
Edition	
Publisher	McGraw Hill
ISBN	10-0-07-2261528

Course Material	Book
Author	Fowler and Scott
Publishing Year	0
Title	UML Distilled
Subtitle	
Edition	
Publisher	Addison-Wesley

Course Material	Book
Author	Bouch, Jacobson and Rumbaugh
Publishing Year	0
Title	The Unived Modeling Language Guide
Subtitle	
Edition	
Publisher	Addison-Wesley
ISBN	0-201-57169-4

Course Material	Book
Author	Shalloway and Trott
Publishing Year	0
Title	Design Patterns Explained
Subtitle	
Edition	
Publisher	Addison-Wesley
ISBN	0-201-71594-5

Course Material	Book
Author	Bruce, Powel and Douglas
Publishing Year	0
Title	Real-Time UML
Subtitle	Developing Efficent Objects For Embeded Systems
Edition	
Publisher	
ISBN	0-201-65784-8

Notes

This module provides the students with the necessary skills to analyse business hardware and software requirements of an enterprise DBMS.