**Liverpool** John Moores University

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| Title: | ENTERPRISE SYSTEMS DEVELOPMENT |
| Status: | Definitive |
| Code: | **5003KCOM**   (116590) |
| Version Start Date: | 01-08-2011 |

Owning School/Faculty:     Computing and Mathematical Sciences
Teaching School/Faculty:   Kaplan Financial Singapore

| Team | emplid | Leader |
|---|---|---|
| Mark Taylor | | Y |

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| **Academic Level:** | FHEQ5 | **Credit Value:** | 24.00 | **Total Delivered Hours:** | 72.00 |
| **Total Learning Hours:** | 240 | **Private Study:** | 168 | | |

**Delivery Options**
Course typically offered: Standard Year Long

| Component | Contact Hours |
|---|---|
| Lecture | 24.000 |
| Tutorial | 48.000 |

**Grading Basis:** 40 %

**Assessment Details**

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|---|---|---|---|---|
| Report | AS1 | Group report covering pre-analysis phase objectives and deliverables. | 40.0 | |
| Report | AS2 | Group report to produce a logical and physical design for a given problem scenario. | 60.0 | |

**Aims**

*To provide an understanding of the underlying principles of systems analysis and design.*

**Learning Outcomes**

After completing the module the student should be able to:

1    Apply the underlying principles of systems analysis and design.
2    Apply different systems analysis and design methodologies.
3    Differentiate between the logical and physical design process.
4    Apply the concepts of object orientation within software system analysis and design.

## Learning Outcomes of Assessments

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

Pre-analysis            1    2

Problem scenario        3    4

## Outline Syllabus

*Process overview: Traditional and contemporary systems development lifecycles and management including agile approaches such as DSDM and XP.*
*Pre-analysis phase: Investigation, information gathering, feasibility studies.*
*Analysis phase: Requirements capture, prototyping, analysis and specification (structured techniques such as DFDs, ERM; object-oriented techniques such as UML, use cases, activity diagrams and static structure class diagrams).*
*Design phase: Object-oriented analysis and design; Logical design; Physical design; Architectural design (component diagrams, deployment diagrams); Usability issues: HCI and prototyping.*
*Post implementation phases:  System testing, installation, training and maintenance.*

## Learning Activities

Formal theory will be introduced via lectures and practical knowledge will be acquired via tutorials and coursework.

## References

| Course Material | Book |
|---|---|
| **Author** | Avison, D. and Fitzgerald, G. |
| **Publishing Year** | 2006 |
| **Title** | Information Systems Development |
| **Subtitle** | Methodologies, Techniques and Tools |
| **Edition** | 4th Edition |
| **Publisher** | McGraw Hill |
| **ISBN** | 07-711417-6 |

| Course Material | Book |
|---|---|

| Author | Motiwalla, L. and Thompson, J. |
|---|---|
| **Publishing Year** | 2008 |
| **Title** | Enterprise Systems for Management |
| **Subtitle** | |
| **Edition** | |
| **Publisher** | Prentice Hall |
| **ISBN** | 013233531X |

| Course Material | Book |
|---|---|
| **Author** | Hoffer, J.A. |
| **Publishing Year** | 2008 |
| **Title** | Modern Systems Analysis and Design |
| **Subtitle** | |
| **Edition** | 5th Edition |
| **Publisher** | Prentice Hall |
| **ISBN** | 9780132240765 |

| Course Material | Book |
|---|---|
| **Author** | Britton, C. and Doake, J. |
| **Publishing Year** | 2005 |
| **Title** | Software System Development |
| **Subtitle** | A Gentle Introduction |
| **Edition** | 4th Edition |
| **Publisher** | McGraw Hill |
| **ISBN** | 9780077111038 |

**Notes**

This module explores the theories and practical application of systems analysis and design techniques with particular emphasis on object-oriented analysis and design and its role in software development for the modern enterprise.