

## Liverpool John Moores University

Title: SOFTWARE DEVELOPMENT PROJECT  
Status: Definitive  
Code: **6014KCOM** (116619)  
Version Start Date: 01-08-2011

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

| Team         | Leader |
|--------------|--------|
| Thomas Berry | Y      |

**Academic Level:** FHEQ6      **Credit Value:** 36.00      **Total Delivered Hours:** 16.00  
**Total Learning Hours:** 360      **Private Study:** 344

### Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture   | 4.000         |
| Seminar   | 12.000        |

**Grading Basis:** 40 %

### Assessment Details

| Category     | Short Description | Description  | Weighting (%) | Exam Duration |
|--------------|-------------------|--------------|---------------|---------------|
| Report       | AS2               | Report       | 90.0          |               |
| Presentation | AS1               | Presentation | 10.0          |               |

### Aims

*To enable the student to use rigorous development methods to produce software to solve a realistic problem and to evaluate the process  
To present results both orally and as a written report.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Identify the requirements of a software development problem and document its specification.
- 2 Define a plan of the stages needed to develop the project.
- 3 Employ the project stages of analysis, design, implementation, testing and evaluation.
- 4 Critically evaluate progress on the problem.
- 5 Critically review the solution and results of the project.

## Learning Outcomes of Assessments

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

|                |   |   |   |   |
|----------------|---|---|---|---|
| Project report | 1 | 2 | 3 | 5 |
| Presentation   | 4 |   |   |   |

## Outline Syllabus

*Each project is different but would be expected to include:*

*Identification of a problem within computing.*

*Background research on chosen topic.*

*Discussion of idea with a member of staff leading to the basis for the project specification.*

*Development of a project specification.*

*Project should follow an identified life cycle.*

*Once the specification has been approved then the student works on the project with guidance from their supervisor.*

*Research into potential solutions, design, implementation of solution and testing.*

*Project Presentation to show project progress.*

*Write up of project to form final project report.*

## Learning Activities

Research methods, project planning and project management methods are introduced in lectures during induction. Students have an allocated supervisor who advises them throughout the year.

## References

|                        |  |
|------------------------|--|
| <b>Course Material</b> | Book   |
| <b>Author</b>          | Greetham, B.                                 |
| <b>Publishing Year</b> | 2009   |
| <b>Title</b>           | How to Write your Undergraduate Dissertation |
| <b>Subtitle</b>        |  |

|                  |                    |
|------------------|--------------------|
| <b>Edition</b>   |                    |
| <b>Publisher</b> | Palgrave Macmillan |
| <b>ISBN</b>      | 978-0230218758     |

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### **Notes**

This individual project enables the student to analyse a problem requiring a software product and use rigorous software development methods to design, implement and test a solution, and to evaluate the result.