

Module Title Business Systems Modelling and Development	Reference CM2005 SCQF Level SCQF 8 SCQF Points 15 ECTS Points 7.5 Created May 2002 Approved April 2005 Amended August 2007 Version No. 3
Keywords Systems Development, Object, UML, Feasibility, Data, Technical, Social, Ethical, Implementation, Information Gathering	

This Version is No Longer Current

The latest version of this module is available [here](#)

Prerequisites for Module

None, in addition to course entry requirements.

Corequisite Modules

None.

Precluded Modules

None.

Aims of Module

To provide the student with the ability to apply basic systems, analysis and design concepts and techniques.

Learning Outcomes for Module

On completion of this module,

Indicative Student Workload

<i>Contact Hours</i>	Full Time
Lecture	12
Tutorials	12
Laboratory	24
Assessment	10

Private Study

Private Study	92
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Mode of Delivery

This is a lecture based course, supplemented with tutorial and laboratory sessions, where varied examples and case studies are used. Group working in tutorial session case studies is encouraged.

Assessment Plan

Learning Outcomes Assessed

students are expected to be able to:

1. Apply systems theory to a problem area.
2. Apply basic systems information gathering techniques to a business problem.
3. Model business system requirements using appropriate systems analysis techniques.
4. Assess the feasibility of a project proposal.
5. Model the solution to a business problem using appropriate system design techniques.

Indicative Module Content

Systems theory, sub-systems, packages, components, classes, systems development lifecycle, feasibility: economic, social and technical aspects, information gathering (interviews, questionnaires, observation, background reading, joint application development, systems modelling using appropriate modelling language and lifecycle, User View, Structural View, Dynamic View, Interaction View, Implementation View, Design Patterns, CASE tool use.

Component 1	1,2,3,4,5
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Component 1 - Coursework

Indicative Bibliography

1. LARMAN, C., 2009. Applying UML and Patterns: An Introduction to Object-oriented Analysis and Design and Iterative Development. 3rd Ed. Dorling Kindersley
2. BENNETT, S., MCROBB, S. and FARMER, R., 2005. Object-Oriented Systems Analysis and Design Using UML. 3rd ed. McGraw Hill.
3. BRITTON, C. and DOAKE, J., 2004. Object-Oriented Systems Development. McGraw Hill
4. FREEMAN, E., FREEMAN, E., SIERRA, K. and BATES, B., 2004. Head First Design Patterns. O'Reilly