

MODULE SPECIFICATION TEMPLATE

- 1 **The title of the module:** CO533 Information Systems Analysis
- 2 **The Department which will be responsible for management of the module:** Computer Science
- 3 **The Start Date of the Module:** Spring 2005
- 4 **The cohort of students (onwards) to which the module will be applicable.** 2009/10
- 5 **The number of students expected to take the module:** 30-45
- 6 **Modules to be withdrawn on the introduction of this proposed module and consultation with other relevant Departments and Faculties regarding the withdrawal**
This course covers material on systems analysis and information systems previously taught in Co682 (Information Systems Analysis and Design) whose withdrawal has already been planned.
- 7 **The level of the module (eg Certificate [C], Intermediate [I], Honours [H] or Postgraduate [M]):**
I
- 8 **The number of credits which the module represents:** 15
- 9 **Which term(s) the module is to be taught in (or other teaching pattern):** Autumn
- 10 **Prerequisite and co-requisite modules:** CO321. CO533 module cannot be taken together with CO521 at any point during a programme.
- 11 **The programmes of study to which the module contributes**
Computer Science, Computing and Business Administration, Applied Computing Joint Honours and "With" programmes, Business Information Technology, Information Technology, and Year in Industry variants.
- 12 **The intended subject specific learning outcomes and, as appropriate, their relationship to programme learning outcomes**
Enable students:
 - To develop abilities to reflect on systems and organisations and to communicate about them coherently [B2]
 - To develop an understanding of requirements and their specification [B3]
 - To understand the role of abstraction in systems analysis [C1, C2]
 - To deepen their understanding of the role of information within and between organisations [B6, C2, C3]
 - To be able to specify information systems. This involves:
 - Understanding project management [C4, C9]
 - Carrying out a systems investigation [B6, C3, C4, C9, C11]
 - Stakeholder analysis [C9, C10]
 - Drawing up a business case involving a cost-benefit study [B6, C9, C11]
 - UML modelling of requirements (Class, Use cases, Activity, Sequence and State diagrams) [B5, C4, C11]
 - To deepen their understanding of the nature of commonly found commercial and administrative information systems. [C2]
- 13 **The intended generic learning outcomes and, as appropriate, their relationship to programme learning outcomes**
The module will contribute to the generic learning outcomes detailed under the following headings in the appropriate programme specifications:
Transferable skills
The module will extend students skills in:
 - teamwork through group research and presentation [D1],
 - communication both oral and written [D2],
 - IT skills for information retrieval and presentation, D3],
 - self-management, and their ability to adjust the pace and goals of their work to meet deadlines
 - self-management and time-management [D5].
- 14 **A synopsis of the curriculum**
An indicative synopsis is as follows:

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- Systems Analysis.
- Systems and Models, Soft Systems Methodology.
- Entity Relationship modelling.
- Systems Analysis for Information Systems Specification
- The context of systems innovation - Human, organisational and technical infrastructure, IT applications, Projects and their management.
- Project initiation and Requirements investigation - Stakeholder analysis, Interviewing, other fact finding techniques. Business Case, cost-benefit analysis.
- OO methods and the use of UML for modelling of requirements (Class, Use Cases, Activity, Sequence and State diagrams).
- Procurement and Implementation
- Case Studies of Information Systems - student researched and presented.
- Systems characterised by a single database supporting a single application.
- ERM - Manufacturing - Supply Chain management systems.
- CRM - Marketing and Sales systems.
- Financial systems (Revenue collection, Accounting)
- Hospital systems - eg Patient Administration Systems.
- Local Government systems.
- Systems Specification Exercises based on student commissioned systems. One group of students will act as commissioners while another produces a project plan, specification and an implementation plan. Possible topics include:
 - Club membership,
 - Resource management (eg Photographic Soc. equipment),
 - Event booking and management,
 - Car sharing system,
 - Accounting for communal living.

15 **Indicative Reading List**

Satzinger, J.W., Jackson, R.B. and Burd, S.D. "Systems Analysis and Design in a Changing World", 3rded, 2004.

Also Library copies of :

Checkland, P. "Information, Systems and Information Systems", 1998.

Scheer, A.-W. "Business process Engineering: Reference models for Industrial Enterprises, 2nd ed, 1994.

Laudon K.C. and Laudon J.P. "Essentials of Management Information Systems", 6th ed, 2004.

16 **Learning and Teaching Methods, including the nature and number of contact hours and the total study hours which will be expected of students, and how these relate to achievement of the intended learning outcomes**

The module will require 150 hours of study over one term. The taught component will consist of approximately

- (a) 20 hours of lecture – including,
- (b) 2 hours of cases studies, requiring student presentation and participation.

There will be 9 hours of classes (students taught 15 per group) supporting the lectures.

17 **Assessment methods and how these relate to testing achievement of the intended learning outcomes**

A case study involving a group presentation and a group report will carry 12% (3% for the individual presentation, 9% for the report) of the marks and will assess students' abilities to reflect on systems and organisations and to communicate coherently [B2] and to understanding of the nature of commonly found commercial and administrative information systems. [C2, C3].

A short essay on an IS topic based, in part, on lecture material will carry 12% of the marks, [B2].

A systems specification exercise will carry 26% of the marks and will assess students' abilities to develop and understanding of requirements and their specification [B3] and the processes involved in information systems specification, [C4,C9,C10,C11, B5,B6]

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The remaining 50% of marks will be awarded on the basis of a written examination that will assess the more sophisticated aspects of the students' skills and understanding of those aspects of the learning outcomes that are also assessed by the case study and project assessments. The examination will also assess students' individual understanding of information systems analysis and the role of information systems within organisations [B2,B3, B6,C1,C2, C4, C10, C11]

17 Implications for learning resources, including staff, library, IT and space

Several members of the Computing Laboratory will be able to teach this module or parts of this module. Some additional texts will need to be purchased for the library. There is no need to purchase additional software for this module, and there are no unusual space requirements.

18 A statement confirming that, as far as can be reasonably anticipated, the curriculum, learning and teaching methods and forms of assessment do not present any non-justifiable disadvantage to students with disabilities

The department recognises and has embedded the expectations of SENDA, and supports students with a declared disability or special (educational) need in its teaching, through the establishment of Inclusive Learning Plans agreed between student, department and the Disability Support Unit. We will liaise with the Disability Support Unit in order to provide specialist support where needed.

Where a particular disability adversely affects a student's ability to attain one of the module learning outcomes, the corresponding programme learning outcome will be adversely affected to the same degree.

Statement by the Director of Learning and Teaching: "I confirm I have been consulted on the above module proposal and have given advice on the correct procedures and required content of module proposals"

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Director of Learning and Teaching

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Date

Statement by the Head of Department: "I confirm that the Department has approved the introduction of the module and will be responsible for its resourcing"

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Head of Department

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Date

Revised 31 October 2006
August 2009