UCAS code: N2G5

BSc Management with Information Technology

For students entering Part 1 in 2007

| Awarding Institution: Teaching Institution: Relevant QAA subject benchmarking group(s): Faculty of ESS | The University of Reading The University of Reading Business and Management |
|---|---|
| Programme length: | 4 years |
| Date of specification: | 13 May 2008 |
| Programme Director: | Dr L. Newton |
| Programme Adviser: | Gerard McKee |
| Board of Studies: | Management |
| Accreditation: | British Computer Society (can be applied |
| | for individually) |

Summary of programme aims

This programme aims to prepare students for responsible professional leadership and managerial roles in the Information Technology industry, and provides a good understanding of a range of key functional aspects of business. It is distinctive in placing a strong emphasis on international business themes relevant for the emerging challenges facing business in a global context. Graduates will be well qualified to develop as professional career in the management or development of a firm within the IT industry.

Transferable skills

The University's Strategy for Teaching and Learning has identified a number of generic transferable skills which all students are expected to have developed by the end of their degree programme. In following this programme, students will have had the opportunity to enhance their skills relating to career management, communication (both written and oral), information handling, numeracy, problem-solving, team working and use of information technology.

As part of this programme students are expected to have gained experience in the following transferable skills: IT (programming, word processing, databases and use of standard software), technical writing, oral presentations, team-working, problem-solving, use of library resources, time-management, career planning and management, and business awareness.

Programme content

In the first year students spend 50% of their time on Management related subjects, and the remainder on their minor subject. More time is spent on the major subject in latter years. The third year is spent on an approved placement.

| Part 1 (three Compulsory | • | Credits | Level |
|-----------------------------|--------------------------------------|---------|-------|
| Mod Code | Module Title | | |
| MM1F4 | Introductory Management | 20 | С |
| EC1F5 | Introductory Quantitative Techniques | 20 | С |
| Either | | | |
| MM1F2 | Introductory Financial Accounting | 20 | С |
| Or | | | |
| MM1F10 | Student Enterprise | 20 | С |
| | Man with IT entry 2007 | 1 | |

| SE1TQ5 SE1SB5 SE1TR5 | COTS 1 Software Engineering 1 E-business 1 | 20 20 20 | C C C |
|--|---|----------------|-------------|
| Part 2 (three Compulsory Mod Code | • | Credits | Level |
| MM258 | Introduction to Information Systems Management | 20 | 1 |
| MM256 | Management Skills (incorporating CMS) | 20 | 1 |
| CS2TD7 | Databases | 10 | i |
| CS2TZ3 | PC Infrastructure | 10 | Ì |
| CS2TR6 | E-business 2 | 20 | I |
| Optional mo | | | |
| | ould take 40 credits of optional modules from the t Module Title | following |): |
| Mod Code MM255 | Marketing Management | 20 | |
| MM254 | Organisational Behaviour | 20 | 1 |
| MM270 | Practice of Entrepreneurship | 20 | i |
| | | 20 | • |
| Placement y | | Credits | Level |
| Mod Code | | 400 | |
| SE2W9 | Industrial Year | 120 | I |
| Part 4 (three terms) Compulsory modules in Management (20 credits) Mod Code Module Title | | Credits | Level |
| MM332A | Strategic Management and Business Policy 1 | 20 | Н |
| | Option modules in Management to total 60 credits | | |
| | Students must choose THREE 20-credit option modules. A complete list of options is available from the Programme Director, and a list of current options can be found in the relevant School Handbook. There is no guarantee that every optional module will be available in any given year, New optional modules may also be added. | | |
| *has I level pre-requisite | | | |

Optional modules:

Students should take 40 credits of optional material from final year modules such as: Mod Code Module Title

| Mod Code | Module Title | | |
|----------|------------------------------|----|---|
| CS3TA4 | Enterprise IT Architectures | 10 | Н |
| CS3TC4 | Project Management | 10 | Н |
| MM374 | Informatics for E-Enterprise | 20 | Н |
| | | | |

Students may choose up to 20 credits from other modules from the Information Technology or Management programmes or elsewhere, with Course Advisers permission and subject to timetabling.

There is no guarantee that in any one year all modules will be available.

Progression requirements

To gain a threshold performance at Part 1 a student shall normally be required to achieve an overall average of 40% over 120 credits taken in Part 1, and a mark of at least 30% in individual modules amounting to not less than 100 credits. In order to progress from Part 1 to Part 2, a student shall normally be required to achieve a threshold performance at Part 1 and obtain at least 30% in all compulsory modules.

To gain a threshold performance at Part 2 a student shall normally be required to achieve an overall average of 40% over 120 credits taken in Part 2, and a mark of at least 30% in individual modules amounting to not less than 100 credits. In order to progress from Part 2 to Part 3, a student shall normally be required to achieve a threshold performance at Part 2.

To be eligible for Honours, students must obtain an overall average mark of 40% **and** pass the placement year. Students who pass Part 2 are eligible to transfer to the Business Information Technology BSc (this degree does not include a placement year).

Summary of teaching and assessment

Teaching is organised in modules that typically involve both lectures and practical work. Most modules are assessed by a mixture of coursework and formal examination. However, some modules are assessed only as coursework, while others are assessed solely by examination. Details are given in the relevant module descriptions. The weighting between Part 2, 3 and 4 is outlined in Faculty regulations.

Admission requirements

Entrants to this programme are normally required to have obtained:

UCAS Tariff: 320 points, from three A2's plus:

- (i) Mathematics either at A level or GCSE grade A; and
- (ii) GCSE Grade A in English Language or at least a B in an essay-based A or AS level.

Equivalent qualifications are acceptable.

Admissions Tutor: Dr Michael Mol.

Support for students and their learning

University support for students and their learning falls into two categories. Learning support includes IT Services, which has several hundred computers and the University Library, which across its three sites holds over a million volumes, subscribes to around 4,000 current periodicals, has a range of electronic sources of information and houses the Student Access to Independent Learning (S@IL) computer-based teaching and learning facilities. There are language laboratory facilities both for those students studying on a language degree and for those taking modules offered by the Institution-wide Language Programme.

Student guidance and welfare support is provided by Personal Tutors, School Senior Tutors, the Students' Union, the Medical Practice and the Student Services Centre. The Student Services Centre is housed in the Carrington Building and includes the Careers Advisory Service, the Disability Advisory Service, Accommodation Advisory Team, Student Financial Support, Counselling and Study Advisors. Student Services has a Helpdesk available for enquiries made in person or online (www.risisweb.reading.ac.uk), or by calling the central enquiry number on (0118) 378 5555. Students can get key information and guidance from the team of Helpdesk Advisers, or make an appointment with a specialist adviser; Student Services also offer drop-in sessions on everything from accommodation to finance. The Carrington Building is open between 8:30 and 17:30 Monday to Thursday (17:00 Friday and during vacation periods). Further information can be found in the Student Diary (given to students at enrolment) or on the Student website (www.reading.ac.uk/student).

The School of Business provides handbooks that outline programme and module content. In additional to lecture and class time, each module lecturer has appointed office hours during which they may be consulted without prior appointment. The Department of Management has a resource centre with reference books and computers for student use.

Within the Computer Science Department additional support is given though practical laboratory classes. The development of problem-solving skills is assisted by appropriate assignment and project work. There is a Course Adviser to offer advice on the choice of modules within the programme. Course handbooks are provided for each Part of the course: these give more details about the modules which make up the degree. In addition, the School of Computer Science, Cybernetics and Electronic Engineering produces a Handbook for Students, which provides general information about the staff and facilities within the school.

Career prospects

This new degree is designed to be industry oriented. It is expected that graduates will work within the IT industry in managerial careers and may also be employed in IT management in other private and public sector organisations. Graduates in Management with Information Technology could be expected to have the following generic job titles:

- Systems manager
- Marketing manager-IT
- IT operations manager
- systems analyst
- analyst/programmer
- software engineer
- applications developer
- web developer
- project manager
- software/hardware trainer.

Opportunities for study abroad or for placements

Placements are a compulsory part of the programme in the third year. Students are expected to seek and secure a work placement in an appropriate firm. The work

placement or internship should be of at least 30 weeks in an organisation approved by the Board of Studies. In exceptional circumstances (e.g. company failure) the Board may reduce this or approve a substitute or other alternative on the advice of the Director of Studies.

Educational aims of the programme

To develop the students' knowledge of the practice and underlying theory of Information Technology and Business, necessary for them to secure employment as a professional in a wide variety of industries; to encourage their critical and analytical skills; to develop their ability for independent thinking and reasoning; to develop their competence in applying management and business techniques and skills to business practice; and to develop their skills in applying practical concepts to the design of computer systems, and the development of Management Information Systems. Finally, the programme aims to meet the needs of the IT industry for business graduates who have a sound knowledge and understanding of IT and the IT industry.

| Programme Outcomes | |
|--------------------------------------|---|
| A. Knowledge and understanding | Teaching/learning methods and |
| of: | strategies(and sources of K&U by |
| 1. Business and Management | class code): in Business: |
| a. The theoretical basis of | a-e Lectures; tutor-led tutorials; student |
| management and key functional | and tutor-led seminars and problem-based |
| areas of business. | learning. All Management courses. |
| b. Current developments in the | |
| practice and theory of business | b. Guest lecturers from industry and |
| management. | directed self-study. CB3BW4;CS3BP4. |
| c. Fundamental concepts of business | d-e. MM359;MM258;MM330;MM335; |
| management relevant to the student | MM330. |
| becoming a manager in a UK | f. MM332;MM335;MM254;CSB3P4; |
| business. | CS3BW4 |
| d. The environmental and ethical | Teaching/learning methods and |
| context of business management in | strategies in IT: |
| the UK. | The course concentrates on aspects 1. |
| e. An understanding of the | and 2. with teaching of all aspects |
| importance of international and | involving an introduction of the aspects in |
| e.business. | theoretical manner and re-enforcement by |
| f. Understanding of the drivers of | related practical work, with the first year |
| change in business, including | providing the core, subsequent years |
| technology, management practice, | involve deeper study, with the student |
| business cultures and organisational | concentrating on a single theme in their |
| behaviour. | final year. |
| | |
| | Aspects 3 and 4. feature within the COTS |
| B. In IT: Knowledge and | themes particularly from a practical |
| understanding of: | perspective. |
| 1. Software including: | Aspects 3, 4. and 5. are presented as |
| 1a) Programming languages | supporting material and taught in the |
| 1b) Software tools | context of aspects 1. and 2. as and when |
| 1c) Packages | they are needed. |
| 1d) Computer Applications | Assessment in business and IT: |
| 1e) Structuring of data and | Knowledge is tested through a mixture of |
| information | formal examinations and practical work. |
| 2. Practice | |
| 2a) Problem identification and | |
| analysis | |
| 2b) Design, development and | |
| evaluation | |
| 2c) Management and organisation | |
| 2d) Professionalism and ethics | |
| 2e) Commercial and industrial | |
| exploitation | |
| 3. Hardware | |
| 4. Communication and interaction | |
| 5. Theory | |
| Note these are the five areas | |
| identifies in the Computing | |
| benchmark. | |

| B. Intellectual skills – | Teaching/learning methods and |
|--|---|
| In Business to be able to: | strategies. In Business: |
| a Apply the skills needed for | a-f. Lectures; tutor-led tutorials; |
| academic study and enquiry. b. Evaluate research and a variety of | student and tutor-led seminars; self- |
| | |
| types of information and evidence critically. | directed learning; research-based teaching materials and methods; |
| c. Synthesise information from a | problem-based learning scenarios. All |
| number of sources in order to gain a | Management classes to some |
| coherent understanding of theory and | degree. |
| practice. | b,e,f. Case studies.CS3BW4; |
| d. Apply strategies for appropriate | CS3BP4;MM252;MM332. |
| selection of relevant information from | c-d. Independent research and self |
| a wide source and large body of | study |
| knowledge. | CS3BW4; CS3BP4;MM252;MM332. |
| e. Utilise problem-solving skills. | |
| f. Analyse, evaluate and interpret the | Assessment: |
| assumptions and principles | Written exam papers; practical |
| underpinning business management. | assessments; coursework (essay); |
| | case study analysis; dissertation. |
| In IT to be able to: | |
| 1. Demonstrate knowledge and | In IT: |
| understanding related to aspects | 1. and 2. As above in IT element. |
| outlined above. | 3., 4. and 5. will be taught as part of |
| 2. Apply such knowledge and | the themes; Software Engineering; |
| understanding to the modelling of | Programming and Design and COTS. |
| computer systems. | The taught element will be re- |
| 3. Recognise and analyse criteria and | enforced by practical work. |
| specifications appropriate to a | 6. will be taught as part of COTS 1 |
| specific problem. | and E-Business 1, throughout the |
| 4. Critically evaluate and test a | course the students will be expected |
| computer based system. | to use these skills. |
| 5. Deploy appropriate methods and | 7. will be pervasive throughout the |
| tools for creating computer systems. | course but be covered specifically in |
| 6. Reflect and communicate | the Software Engineering theme and |
| 7. Recognise and conform to | the compulsory material in the final |
| appropriate professional, ethical and | year. |
| legal practices | Assessment |
| | These skills are tested through a |
| | mixture of formal examinations, |
| | presentations, reports and practicals. |
| | The individual project provides a major piece of work in which among |
| | other things the student will be |
| | assessed on their abilities to reflect |
| | and communicate. Oral presentations |
| | will be required in the Software |
| | Engineering and COTS themes and |
| | the Project, in the latter the |
| | presentation will be assessed by two |
| | members of staff not involved in the |
| | supervision of the Project. |
| | |

| C. Practical business skills. Able to: a. Understand the economic | Teaching/learning methods and strategies: |
|---|--|
| a. Understand the economic basis of the firm in its wider economic, political and social environment. b. Recognise and understand basic financial accounting features of a firm. c. Evaluate the behaviour, culture and strategy of firms. Effectively apply key professional skills learnt in optional classes to the business world. Practical IT skills. Able to: 1. Specify, design and construct computer-based systems. 2. Evaluate systems | strategies: In business: a-d. Practical projects; placements; seminars; lectures; problem-based scenarios. MM1F4;MM254;MM332 b. Lectures and workshops. MM1F2; c Case studies, placements, practical projects. MM254;MM332;MM330. Assessment: Written exam; practical papers; coursework; case studies. In IT: 1. will be covered both theoretically and practically, particularly in the Programming and Design themes. 2. will be particularly covered as part |
| Evaluate systems Recognise Risks and Safety aspects Effectively deploy software tools Operate computing equipment effectively | 2. Will be particularly covered as part COTS themes. 3. Theoretical aspects of risk and safety, the compulsory material in the final year will also cover managerial aspects. Practical aspects will be presented in the IT themes. 4. will be covered theoretically and practically as part of the COTS, Programming and Design and Software Engineering themes. 5. will be covered as part the COTS theme in a theoretical and practical manner. Assessment Skills 1. to 5. will be assessed by a mixture of practical work and examination. |

| D. Transferable skills – | Teaching/learning methods and |
|---|---|
| Business elements: able to: | strategies |
| | Business elements: |
| a. Communicate effectively with a wide | a-h. Lectures, group work, group |
| range of individuals using a variety of | presentations, dissertation and project |
| means. | based methods. MM1F4; MM252; |
| b. Evaluate his/her own academic | CS3BW4;CS3BP4;MM332;MM359;MM3 |
| professional performance. | 30;MM335. CMS. |
| c. Utilise problem-solving skills in a | b-c. Group projects, business simulation |
| variety of theoretical and practical | exercises, self assessment exercises. |
| situations. | CS3BW4;CS3BP4; |
| d. Manage change effectively and | CMS;MM332;MM335;MM359;MM330;M |
| respond to changing demands. | M252; |
| e. Take responsibility for personal and | Assessment |
| professional learning and development | Assessments include a wide variety of |
| (Personal Development Planning). | methods such as tutor feedback, |
| f. Manage time, prioritise workloads and manage personal emotions and stress. | critiques of presentations, interactive discussion in groups. Group feedback |
| g. Understand career opportunities and | and peer assessment. |
| begin to plan a career path. | IT elements: |
| h. Information management skills, e.g. IT | 1. Information retrieval will be covered |
| skills. | theoretically and by practical work. It will |
| Skiis. | be introduced in COTS 1. |
| IT elements able to: | 2. Numerical skills will be introduced and |
| 1. Effectively retrieve information | exercised in the COTS 1. |
| 2. Present cases in a quantitative | 3. Time management and organisational |
| dimension. | skills will be taught as part of Software |
| 3. Manage own learning and | Engineering. The students will also be |
| development. | expected to use a number of on-line |
| 4. Appreciate the need for continuing | learning tools. |
| professional development (CPD), be able | 4. Professionalism will be an important |
| to plan and execute their own CPD | issue throughout the course. Students |
| 5. Organise and work as part of a team. | will be encouraged to join the BCS and |
| 6. Plan and manage their own careers. | participate in local meetings. |
| 7. Communicate in a manner appropriate | 5,6 and 7. The University's Careers |
| to the situation. | management skill module component will |
| 8. Effectively use Information | be taken in the second year through the |
| Technology. | Management department. |
| | 8. The COTS theme will specifically |
| | include the use of Information |
| 9. Ability to function in the work place | Technology. |
| | Assessment |
| | 1. to 3., 5. to 8. will be assessed by a |
| | mixture of practical work, presentations, |
| | reports and examinations. 4. will be |
| | assessed by formal examination. |
| | Communication skills (7.) will also be |
| | assessed with the Individual Project. |
| | 9. Is provided by the work placement and |
| | assessed through reports and oral |
| | examination. |

Please note: This specification provides a summary of the main features of the programme and learning outcomes that a typical student might reasonably expect to achieve and demonstrate if he/she takes full advantage of the learning opportunities that are provided. More detailed information on the learning outcomes, content and teaching, learning and assessment methods of each module can be found in module and programme handbooks.