BSc in Building Surveying For students entering Part 1 in 2005

UCAS Code: K230

Awarding Institution **Teaching Institution** Relevant QAA benchmarking groups: Faculty of Science Date of specification: April 2005 Programme Director: Mr. S. Mika Board of Studies: Accreditation: Royal Institution of Chartered Surveyors

The University of Reading The University of Reading Building and Surveying Programme length: 3 years

Summary of programme aims and learning outcomes

The BSc programmes in the School of Construction Management and Engineering aims to provide the leaders and senior managers in the construction industry and related professions. The programme aims to produce graduates with the management skills and technical knowledge required for a diverse and complex industry. It is also a route to obtaining chartered status.

Transferable skills

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

As part of the programme, students are expected to have gained experience and show competence in the following transferable skills: IT (word processing, spreadsheets, computer-aided design and planning software), report writing, oral and graphical presentation, team working, problem-solving, use of library resources, timemanagement, business awareness and career planning and management.

Programme Content

The Degree is divided into three parts. The first part of the programme covers the fundamental principles of economics, law and management and the scientific and technical principles of building design and construction. The second part builds on these modules with greater emphasis on their application to the construction industry. In the third part students take a combination of subjects relevant to the professional pathway they wish to follow.

Part 1 (three terms)			
Compulsory n	nodules	Credits	Level
CE1CBS	Building Science and Services	20	С
CE1CCM	Construction Industry and Materials	10	С
CE1CCT	Construction Technology	20	С
EC103	Economics for Construction and	10	С
	Engineering		
CE1CES	Empirical Studies	10	С
LW1A05	General Introduction to Law	10	С
CE1CIC	Information and Communication	10	С
CE1CM1	Management 1	10	С
CM1CSD	Structural Design	10	С

Part 2 (three terms)

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Compulsory	modules	Credits	Level
CE2CBP	Building Pathology	10	Ι
CE2CAD	Computer-aided Design	10	Ι
CE2CCL	2CCL Construction Contract Law and		Ι
	Management		
CE2CCE	Construction Economics	10	Ι
CE2CCS	Construction Systems	10	Ι
CE2CES	Environmental Systems	10	Ι
CE2CM2	Management 2	10	Ι
CE2CPR	Projects	20	Ι
CE2CRS	Research Skills	10	Ι
CE2CS1	Sustainability 1	10	Ι

Part 3 (three terms)

Compulsory N	Iodules (100 credits):	Credits	Level
CE3CAP	Applied Pathology	10	Н
CE3CBM	Business Organisation and Management	10	Н
CE3CBP	Building Surveying Projects	20	Н
CE3CDR	Design for Rehabilitation	20	Н
CE3CDS	Dissertation	20	Н
CE3CMM	Maintenance Management	10	Н
CE3CPL	Planning Law	10	Н

plus Optional Units amounting to 20 credits

Optional modules The optional modules available to students from year to year may vary, but are likely to include:

CE3CCE	Civil Engineering	10	Н
CE3CCP	Critical Perspectives on Construction	10	Н
	Management		
CE3CDE	Design Cost Evaluation	10	Н
CE3CEC	Environmental Control	10	Н
CE3CFM	Facilities Management	10	Н
CE3CHF	Human Factors	10	Н
CE3CHR	Human Resource Management	10	Н
CE3CIE	Inclusive Environments	10	Н
CE3CIT	Information Technology	10	Н
CE3CIB	Intelligent Buildings	10	Н
CE3CIC	International Construction	10	Н
LW1A06	Introduction to Business Law	10	С
LW101F	Introduction to Property Law	10	С
Various	Language Programme	20	Н
CE3CMC	Management of Construction Projects	10	Н
CE3CMV	Measurement and Valuation	20	Н
CE3CSM	Supply Chain Management	10	Н
CE3CS2	Sustainability 2	10	Н

Admission requirements

Entrants to this programme are normally required to have obtained: Grade C or better in English and Mathematics at GCSE UCAS tariff: 260 points from 3 A-levels or 280 points from 3 A-levels and 1 AS-level. Subjects and levels: There are no required subjects although Economics, Business Studies, Mathematics or Geography are all relevant. AS: 2 AS grades are accepted as 1 A level Irish Leaving Certificate: BBBCC at Higher Level International Baccalaureate: 30 points

BTEC ONC and OND with 2 distinctions and 4 merits at Level III HNC and HND with 1 distinction and 4 merits at Levels IV and V.

Applications are welcome from international applicants, mature students and from those coming from other educational routes.

Second Year Entry is considered for those applicants with higher qualifications than those required for Year 1 entry. Applicants with BTEC HND with 2 distinctions and 4 merits will be considered for advanced entry.

Admissions Tutor: Mr. Stephen Mika

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 (<u>S@il</u>) computer-based teaching and learning facilities.

Progression Requirements

In order to progress from Part 1 to Part 2 and from Part 2 to Part 3 of a Bachelor's programme, a student shall normally be required to:

- Achieve an overall average of 40% in 120 credits; and
- Achieve not less than 40% in modules taken in Part 1 (or 2) except that marks of less than 40% but not less than 30% in a total of 20 credits may be condoned.

Part 2 contributes one third and Part 3 contributes two thirds towards the Final Degree classification.

The University's honours classification is as follows:

Mark	Interpretation
70% - 100%	First class
60% - 69%	Upper Second class
50% - 59%	Lower Second class
40% - 49%	Third class
35% - 39%	Pass below Honours standard
0% - 34%	Fail

Summary of teaching and assessment

In Parts 1 and 2 teaching is through lectures with supporting tutorial classes of up to fifteen students. Tutorials encourage students to examine the material covered in the lectures and discuss and debate relevant issues. Supervised projects, undertaken in groups, are used as learning programmes in construction and building technology.

Information and Communication provides a practical element at Part 1 and in Part 2 group project work is an integral part of the programme. In Part 3 there is a greater emphasis on positive individual participation in the course with seminars and individual project work. A wide variety of assessment methods is used throughout the programme, including unseen written examinations, essays, reports and projects, with oral and pin board presentations. In Part 3 students must undertake a dissertation

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The School's Resources Room contains a variety of information sources relevant to construction and surveying related courses. It has a wide ranging reference collection

of textbooks, journals, videos and information from companies in the construction and development industries. The School has its own IT Suite which contains software relevant to construction and surveying including AutoCAD for computer-aided design.

Career prospects

Students have been regularly employed by the largest and most prestigious firms of surveyors including: E.C.Harris, Citex, Jones Laing LaSalle, Weatherall, Smith and Green, Chestertons, Donaldsons Drivers Jonas, King Sturge and Ridge and Partners. Many of these companies are willing to offer sponsorship in terms of work in the summer vacations or for year-out placements.

Opportunities for year in industry

Students may, with permission from the Dean, suspend their studies for a year in order to undertake an industrial or professional placement.

Opportunities to study abroad

Due to the need to meet the requirements of professional accreditation, students cannot study abroad, as part of their degree. Students may be permitted to undertake a Socrates or other study visit as part of an approved 'gap' year between Part 2 and Part 3 of the programme.

Educational aims of the programme

The overall aim of the programme is to give a broad education in the academic disciplines related to the management of property, construction procurement and construction operations and to prepare graduates for a career leading to a senior management position in related vocational disciplines. The programme will provide a coherent, academic course of study which is relevant to the needs of employers in these disciplines.

With respect to the specific disciplines of the programme, the course will provide:

- A knowledge and understanding of the design, construction and maintenance of buildings and built facilities and the management techniques used for these processes.
- A sound knowledge base in the design, construction, failure and maintenance of buildings.
- The development of the intellectual and practical skills in observation and analysis of building.
- The development of IT, drawing, written and oral skills in the communication of design, technical and analytical information.

Knowledge and understanding of

- 1. The nature, roles and structure of the property development and construction industries.
- 2. The processes of design, construction and servicing of buildings.
- 3. The environmental, legal, economic and managerial principles of property development in market economy economies.
- 4. The techniques required for the procurement, planning, management and costing of building development.
- 5. The way buildings fail and how these failings manifest themselves.
- 6. The various processes and activities in the maintenance, rehabilitation and repair of buildings.

Teaching and Learning Methods and Strategies Core knowledge and understanding is acquired through lectures, tutorials, computer-aided instruction, laboratory practical work, group projects, site visits and guided independent study. Knowledge is further developed through feedback on non-assessed work during tutorial and practical exercises.

Whilst basic facts are obtained in lectures and guided reading, this knowledge is applied through the specialist modules and the practical application of the principles and skills in project work throughout the course and in on-site, building inspections and individual, specialist project working in Year 3.

Deeper knowledge and understanding in the chosen specialisms is also obtained by research in a related subject area and the writing of a dissertation under supervision.

Specialist options at Year 3 also provide students with an element of choice enabling them to develop subject areas relevant to the Department's research, their own interests and career aspirations.

Assessment

Knowledge and understanding in Years 1 and 2 is assessed primarily by unseen examinations and a by an element of laboratory and project coursework, in groups and individually.

The balance of assessment methods in Year 3 varies depends upon the options selected but include essays, individual project reports, unseen examination papers and the assessment of a dissertation.

Skills and other attributes

B Intellectual Skills - able to:

- 1. Think systematically, comprehensively, logically and imaginatively
- 2. Identify, analyse and solve problems.
- 3. Plan, organise and manage tasks.
- 4. Transfer appropriate knowledge and methods across subject modules
- 5. Rapidly assimilate, evaluate and communicate graphical and written information
- 6. Plan, conduct research and write a report.

C Practical skills - able to:

- Communicate design and specification information in drawn and written form by hand and by using computer aided techniques
- 2. Undertake simple structural calculations.
- 3. Carry out land and building surveys.
- 4. Write reports on the condition of buildings
- 5. Assess visually and by tests the condition of a building
- 6. Work up costs for maintenance and rehabilitation work

Teaching and Learning Methods and Strategies

These skills are developed through the general teaching methods of the course and particularly in laboratory practical work, essay production and undertaking of project based assignments.

Knowledge and understanding are developed by lectures, guided reading and tutorial discussion appropriate to the subject content of the module and through application of the knowledge in project work, which includes group project work in Years 1 and 2 and individual specialist project work and a dissertations in Year 3.

Assessment

Skills in Year 1 are assessed by laboratory reports, tutorial presentations, essays and unseen examination papers In years 2 and 3, these skills are assessed by group project working, individual project reports and a dissertation.

Teaching and Learning Methods and Strategies

These skills are promoted through practical class work in Years 1 and 2 and are further developed by group projects and practical surveying exercises on campus. In year 3, students apply these skills in the specific vocational modules and during a number of site visits and in designed practical project tasks in order to produce specific, developed skill potential.

Assessment

Assessment of practical skills is via coursework and the submission of project reports. Unseen examinations are also used where students are encouraged to display knowledge of techniques and skills. Level 3 projects are designed to test students' competence in exercising practical skills.

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D Transferable skills	Teaching and Learning Methods and
1. Communicate effectively by	Strategies
oral, written and graphical means	These skills are communicated generally
2. Data collection and manipulation	throughout the course through the teaching
3. Apply numerical skills to	and learning processes and class activities
financial information	used in modules.
4. Work effectively independently	Specifically:
or in a group situation	Skills 1 and 4 are required in the project work
5. Career management	undertaken and in the presentations that form
	an integral part of all project work.
	Skills 2 and 3 are part of the application
	aspects in the economic and financial modules
	of Years 1 and 2 and the laboratory work.
	Skill 5, is a continual theme of the course in its
	industrial and professional practice aspects and
	in the application of these at Year 3 in project
	work. Students are provided with the facility
	to become aware of and study the practices
	and techniques of professional practitioners
	and firms through guest lectures and
	recruitment visits of these organisations as part
	of course activities and career selection.
	Assessment
	Transferable skills 1-4 are assessed through
	coursework and presentations.
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Please note: This specification provides a concise summary of the main features of the programme and the 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.