

**MSc Construction Cost Management (full-time)
For students entering in 2014/5**

Awarding Institution:	University of Reading
Teaching Institution:	University of Reading
Relevant QAA subject Benchmarking group(s):	
Faculty:	Science Faculty
Programme length:	1 years
Date of specification:	25/Nov/2014
Programme Director:	Dr Florence Phua
Programme Advisor:	
Board of Studies:	MSc in Construction Management
Accreditation:	Royal Institution Chartered Surveyors, Chartered Institute of Building (CIOB)

Summary of programme aims

The programme provides an opportunity for new entrants to the professional practice of Construction Cost Management, who have taken degrees in non-related disciplines. It provides an introduction to the fundamental academic subjects related to Construction Cost Management and an understanding of the latest academic theories and research, which inform vocational practice in the financial management of construction projects.

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 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.

The programme will develop the following transferable skills:

- Critical systems theory skills
- Systems dynamics and systems evolution analysis skills
- Reflective practitioner skills
- Inter-professional team working skills

Programme content

The programme offers six core modules and four optional modules to be taken from the list below. Flexibility in the choice of optional modules enables candidates to tailor the programme to their own learning requirements.

Core:

CEM100	Dissertation and research skills	60	7
CEM104	CCM Principles and Practice	40	7
CEM201	Introduction to Project Management	10	7
CEM206	Construction Contract Law	10	7
CEM228	Construction Economics	10	7
CEM238	Construction Cost Engineering	10	7

Optional: Four from the list of optional modules

CEM203	Financial and Management Accounting	10	7
CEM204	International Construction	10	7
CEM205	Human Resources Management	10	7
CEM208	Information Systems in Construction	10	7
CEM213	Urban Sustainable Development in EE	10	7
CEM225	Building Information Modelling	10	7
CEM230	Design Management	10	7
CEM242	Advanced Visualisation	10	7
CEM243	New Technology, Management and Change	10	7
CEM244	Analysing Construction Processes	10	7
CEM302	Strategic Management	10	7
CEM303	Sustainable Design, Construction and Operation	10	7
CEM334	Innovative Developments in Construction	10	7
CEM335	Real Estate Development Analysis and Appraisal	10	7

Part-time or modular arrangements

This programme may be taken on a flexible-modular basis, normally over 24 months, up to a maximum of 63 months, with a choice of September or January start.

All 10-credit modules will be provided in one week attendance periods at the University.

Any 10-credit module provided by the School can be taken as a short course on an ad-hoc basis.

Progression requirements

There are no intermediate progression requirements.

Summary of Teaching and Assessment

The general assessment pattern for each module is by coursework. Detailed assessment regimes are specified in the relevant module descriptions.

The overall mark for the programme will be the aggregate mark of modules, weighted by credit value and classified as below. For further details see 'How to calculate an award' at: <http://www.reading.ac.uk/exams/>

The programme will use the University's classification scheme:

Passing categories:

1. 70 - 100% Work of distinction standard
2. 60 - 69% Work of merit standard
3. 50 - 59% Work of good standard

Failing categories:

4. 40 - 49% Work below threshold standard (BTS)
5. 0 - 40% Unsatisfactory Work

Further information on the classification conventions, including borderline criteria, are available at <http://www.reading.ac.uk/internal/exams/Policies/exa-class.aspx>

Masters award

To obtain the Masters award a student must take 180 credits consisting of the six compulsory core modules and four optional modules. To pass the MSc students must gain an average mark of 50 or more over 180 credits including a mark of 50 or more for the dissertation. In addition, the total credit value of all modules marked below 40 must not exceed 30 credits and the total credit value of all modules marked below 50 must not exceed 50 credits.

Students who gain an average mark of 70 or more overall or an average mark of 68 or more and a mark of 70 or more in 90 credits, including a mark of 60 or more for the dissertation, and have no marks below 40 will be eligible for a Distinction. Those gaining an average mark of 60 or more overall or an average mark of 58 or more and a mark of 60 or more in 90 credits, including a mark of 50 or more for the dissertation, and have no mark below 40 will be awarded a Merit.

Diploma award

To obtain the Postgraduate Diploma a student must take 120 credits including at least three compulsory core modules (not including CEM100 Dissertation and Research Skills' or CEM104 Construction Cost Management Integrating Studies). To pass the Diploma students must gain an average mark of 50 or more over the 120 credits. In addition the total credit value of all modules marked below 40 must not exceed 30 credits and the total credit value of all modules marked below 50 must not exceed 50 credits.

Students who gain an average mark of 70 or more over 120 credits or an average mark of 68 or more over 120 credits and a mark of 70 or more in 60 credits, and have no mark below 40 will be awarded a Distinction. Those gaining an average mark of 60 or more over 120 credits, or an average mark of 58 or more and a mark of 60 or more in 60 credits, and have no mark below 40 will be awarded a Merit.

Certificate award

To obtain the Postgraduate Certificate a student must take 60 credits consisting of three compulsory core modules (not including CEM100 Dissertation and Research Skills' or CEM104 Construction Cost Management Integrating Studies). To pass the Certificate students must gain an average mark of 50 or more over the 60 credits. In addition the total credit value of all modules marked below 40 must not exceed 10 credits.

Note: A module cannot be credited for more than one award.

Admission requirements

Applicants are normally required to have a good undergraduate honours degree in any subject. Candidates with a lesser degree and relevant professional qualifications (e.g. ARICS, MCIOB, MICE) will also be considered

Admissions Tutor: Dr Florence Phua

Support for students and their learning

University support for students and their learning falls into two categories. Learning support is provided by a wide array of services across the University, including: the University Library, the Careers, Placement and Experience Centre (CPEC), In-session English Support Programme, the Study Advice and Mathematics Support Centre teams, IT Services and 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 advisers in the Student Services Centre. The Student Services Centre is housed in the Carrington Building and offers advice on accommodation, careers, disability, finance, and wellbeing, academic issues (eg problems with module selection) and exam related queries. 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 and runs workshops and seminars on a range of topics. For more information see www.reading.ac.uk/student

All students in the School are provided with guidance and support for their learning in a variety of ways. Interaction takes place with the Programme Director, Lecturing Staff and Dissertation Supervisors who provide guidance throughout the period of study. Dissertation Supervisors will guide students through the dissertation by organising regular structured meetings. A minimum of 12 supervision meetings would be expected during the programme at times that are mutually convenient. Furthermore all students will be able to meet the Programme Director and lecturing staff at mutually convenient times throughout the year. The School's administrative, support and technical staff help to support and personalise students' experience with the School. In addition to the above, students will have access to the SCME Resource Room and receive a detailed programme handbook and other relevant information packages. The Programme Director will also organise an annual induction event where all students will be welcomed by their lecturing staff in a friendly and informal setting.

All modules are supported by learning materials on a dedicated website. Students are given access to the material via the Blackboard platform, which can be accessed on or off campus.

Career prospects

Graduates will typically find employment in cost management or quantity surveying with public and private sector clients, consultants, or contractors in the building, civil engineering or oil & gas sectors.

Opportunities for study abroad or for placements

There are no formal arrangements for study abroad or placements.

Programme Outcomes

Knowledge and Understanding

A. Knowledge and understanding of:

1. Cost management strategies and operational responses in a project management environment
2. Applied strategic management theories in relation to projects.
3. Evaluating risk and generating value in a project management environment.
4. Construction contracts and contract law.
5. Financial management and accounting in a project environment
6. Construction economics and the firm.
7. Understanding management strategy and practice in other industries
8. Legal requirements of operating in a project environment.
9. Commercial project decision-making.

Teaching/learning methods and strategies

The knowledge required for the theory and practice of CCM is delivered in formal lectures and seminars. Problem solving exercises are used in many modules to help students articulate the concepts and knowledge delivered in lecture. This instruction is supported by conventional private study and web-based learning, including interactive discussion and problem solving exercises. Web based tutorials offer students feedback on their formative (non-assessed work). Feedback is also provided through coursework and tutorials, especially at the Dissertation stage of study.

Assessment

Most learning is tested through coursework. Dissertation and oral presentations also contribute to the final mark.

Skills and other attributes

B. Intellectual skills - *able to:*

Able to:

1. Evaluate the cost implications of design decisions.
2. Evaluate the cost implications of construction and engineering operational requirements.
3. Analyse and solve problems.
4. Think strategically.
5. Synthesise complex sets of information.
6. Understand the changing nature of knowledge and practice in the management of project environments and construction organisations.

C. Practical skills - *able to:*

Able to:

1. Calculate and analyse costs of construction operations, design decisions and engineering decisions.
2. Understand and construct financial plans for construction projects.
3. Formulate and solve cost management problems within and across functional areas of projects and construction-based organisations.
4. Show a capability to act decisively in a co-ordinated way using theory and practice.
5. Use concepts and theories to make judgements in the absence of complete data.

D. Transferable skills - *able to:*

Able to:

1. Develop the capacity to analyse and articulate complex management issues in project and construction environments.
2. Assess what knowledge is transferable from other contexts into the project and construction environments.
3. Be confident in applying learning experience to practical management situations.
4. Work as part of a team.
5. Source material and knowledge from a variety of fields and effectively judge what can be integrated and applied.
6. Attain and apply knowledge and information that will help develop their career.

Teaching/learning methods and strategies

Opportunities to understand theory and evaluate concepts are embedded throughout the programme. Emphasis is placed on how to deploy analytic concepts and theories and their relevance for and application to different practical situations.

Assessment

The coursework is designed to test the student's ability to develop and command these intellectual skills. The Dissertation is the culmination of this process and a maturity of critical awareness and construction evaluation is tested at stage.

Teaching/learning methods and strategies

The teaching is structured around research and theoretical conceptualisations from researchers and practitioners with extensive experience of the construction sector, enabling students to develop and apply practical skills.

Assessment

Case studies in the integrating studies module. Assessed group work. Case-based assignments including reports and presentations, both individually and in teams. All practical skills will be developed through case-based group assignments and finally demonstrated and improved through a dissertation. In addition to that students will learn practical skills through directed reading and lectures.

Teaching/learning methods and strategies

In-depth evaluation of ideas and issues through seminar discussion, problem solving exercises conducted individually and in groups and coursework focussed on practical applications of knowledge and reasoning are designed to develop and test transferable skills.

Assessment

Coursework provides the main means of assessing the introduction and development of these skills. The coursework will assess all the skill aspects to a general MSc level. The Dissertation provides the main means to ascertain maturation in relation to a focussed research topic and hence in depth.

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 be expected 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 the module description and in the programme handbook. The University reserves the right to

modify this specification in unforeseen circumstances, or where the process of academic development and feedback from students, quality assurance process or external sources, such as professional bodies, requires a change to be made. In such circumstances, a revised specification will be issued.