1. **Title of the module**

QUSU4001 Cost Estimating and Budgeting

1. **School or partner institution which will be responsible for management of the module**

Centre for Higher and Degree Apprenticeships

1. **The level of the module (Level 4, Level 5, Level 6 or Level 7)**

 Level 4

1. **The number of credits and the ECTS value which the module represents**

15 credits (7.5 ECTS)

1. **Which term(s) the module is to be taught in (or other teaching pattern)**

This module is being taught as part of the BSc (Hons) Construction and Quantity Surveying which is being delivered as a part-time programme with a blended learning approach.

1. **Prerequisite and co-requisite modules**

None

1. **The programmes of study to which the module contributes**

BSc (Hons) Construction and Quantity Surveying

1. **The intended subject specific learning outcomes.**

On successfully completing the module students will be able to:

1. Demonstrate a basic understanding of budget management for construction.
2. Demonstrate awareness of construction programme (Royal Institute for British Architects [RIBA] Work stages) and methodology for cost estimating and a risk register for construction.
3. Demonstrate a basic understanding of estimating costs as applied to construction project viability including, benchmarking, pre-construction surveys, reports and planning contexts.
4. Demonstrate an understanding of how cost estimating informs the design process, including, the specification of materials, structures, services and delivery logistics
5. Demonstrate awareness and introductory application of cost estimation rules, Royal Institute of Chartered Surveyors (RICS) New Rules for Measurement (NRM1) to including estimating preliminaries and other undefined costs and risks.
6. **The intended generic learning outcomes.**On successfully completing the module students will be able to:
7. Synthesise data and information from a range of sources.
8. Apply principles of numeracy and calculation.
9. Apply analytical skills.
10. Use comparative analysis to draw conclusions.
11. **A synopsis of the curriculum**

This module introduces the concepts and methodology of estimating as applied to the feasibility of construction projects and the initial fees that may be incurred, including preliminaries, design fees, reports, surveys, planning implications and other economic factors. Through case studies it examines how estimating has been applied and how other risk factors are accounted for within the initial estimating for construction projects. Throughout the module the RICS NRM1 rules for estimating are used as a professional point of reference, as the wider context of construction budget management is introduced.

1. **Reading list (Indicative list, current at time of publication. Reading lists will be published annually)**

Wilson R. (2014), *A Comprehensive Guide to Project Management Schedule and Cost Control: Methods and Models for Managing the Project Lifecycle*. London: Pearson FT Press

Pratt D. (2017). *Fundamentals of Construction Estimating*. London: Pearson FT Press

Cartlidge, *D.* (2017). *Quantity Surveyor’s Pocket Book 2017*. Abingdon: Routledge

Buxton P. (2015). *Metric Handbook: Planning and Design Data.* Abingdon: Routledge

Brook,M. (2016). *Estimating and Tendering for Construction Work* by [Martin Brook](https://www.amazon.co.uk/s/ref%3Ddp_byline_sr_book_1?ie=UTF8&text=Martin+Brook&search-alias=books-uk&field-author=Martin+Brook&sort=relevancerank)

Publisher: Routledge

1. **Learning and teaching methods**

The total study time for this module is 150 hours incorporating online e-learning, work-based experience and private study.

Teaching is delivered as a blended learning approach. VLE-delivered E-activities, VLE-delivered work activities serve to reinforce material presented online and also relate directly to the learning objectives. These are specifically based on enabling students to relate their theoretical knowledge to the workplace.

Work-based experience serves to reinforce and provide real-life context to the material being delivered in the module.

Private study encompasses the revising of all material presented in the above various forms of teaching and learning, together with the opportunity to explore and read more widely around specific topics.

1. **Assessment methods**
	1. Main assessment methods:

 Written assignment 70% - 1,500 words

 Written Report 30% - 1,000 words

* 1. Reassessment methods

 Like for like

1. ***Map of module learning outcomes (sections 8 & 9) to learning and teaching methods (section12) and methods of assessment (section 13)***

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Module learning outcome** | *8.1* | *8.2* | *8.3* | *8.4* | *8.5* | *9.1* | *9.2* | *9.3* | *9.4* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |
| **Private Study** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| *Teaching* | **x** | **x** | **x** | **x** | **x** |  | **x** |  | **x** |
| *Work based experience* |  |  | **x** | **x** |  |  |  |  | **x** |
| **Assessment method** |  |  |  |  |  |  |  |  |  |
| *Written assignment*  | **x** | **x** | **x** |  |  | **x** | **x** | **x** | **x** |
| *Written Report* |  |  |  | **x** | **x** | **x** | **x** | **x** | **x** |

1. **Inclusive module design**

The Centre recognises and has embedded the expectations of current equality legislation, by ensuring that the module is as accessible as possible by design. Additional alternative arrangements for students with Inclusive Learning Plans (ILPs)/declared disabilities will be made on an individual basis, in consultation with the relevant policies and support services.

The inclusive practices in the guidance (see Annex B Appendix A) have been considered in order to support all students in the following areas:

a) Accessible resources and curriculum

b) Learning, teaching and assessment methods

1. **Campus(es) or centre(s) where module will be delivered**

Distance

1. **Internationalisation**

The principles that govern the feasibility of construction projects and the estimating of costs, including potential risk factors is common practice within the construction industry and, therefore, has embedded transferable skills that are applicable to international contexts.

**FACULTIES SUPPORT OFFICE USE ONLY**

**Revision record – all revisions must be recorded in the grid and full details of the change retained in the appropriate committee records.**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date approved | Major/minor revision | Start date of the delivery of revised version | Section revised | Impacts PLOs (Q6&7 cover sheet) |
|  23 Jan 19 | New | Sept 19 | New |   |
|  |  |  |  |  |