1. **Title of the module**

QUSU5005 Estimating, Measurement and Costing

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 5

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) Quantity Surveying being delivered through a part-time distance learning approach.

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

None

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

BSc (Hons) Quantity Surveying

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

On successfully completing the module students will be able to:

1. Critically assess the importance of estimating, measurement and quantification in order to achieve successful construction outcomes.
2. Interpret and analyse data from a range of sources including 2D and 3D modelling in order to develop measurement and quantification information including bills of quantities.
3. Develop a strategic approach to estimation, measurement and costing throughout the life cycle of a construction project, including value change and its reporting.
4. Understand standardisation measurement terms and apply professional methodologies to the recording and reporting of estimation, measurement and costing.
5. Assess the risks related to estimating, measurement and costing of construction projects.
6. **The intended generic learning outcomes.**On successfully completing the module students will be able to:
7. Apply numeracy to problem solve.
8. Demonstrate evaluative and analytical skills.
9. Demonstrate transcription of information.
10. Use professional methodologies.
11. Evaluate and manage risk.
12. **A synopsis of the curriculum**

Estimating, measurement and costing are key procedures within the life cycle of a construction project. They are an essential part of the construction process that ensure management teams can set budgets, understand the costs associated with a project, and that the work and materials required to achieve it are accurately quantified and costed.

The module also supports students to interpret and analyse data from a range of sources, including two-dimensional (2D) plans and three-dimensional (3D) models and apply professional methodologies to translate this information into estimation, measurement and costing reports that inform the expectations of clients and contractors. The risks associated with these processes and procedures are also critically considered.

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

Ashworth, A. (2015). *Cost Studies of Buildings.* Routledge

Brook, M. (2016). *Estimating and Tendering for Construction Work*. Routledge

Packer, A. (2016). *Building Measurement.*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 distance 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**
2. Main assessments:

Written Assignment - 2,500 words (50%)

Examination – 2 hours (50%)

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* | *9.5* |
| **Learning/ teaching method** |  |  |  |  |  |  |  |  |  |  |
| **Private Study** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** | **x** |
| Teaching | **x** | **x** | **x** | **x** | **x** | **x** |  | **x** | **x** | **x** |
| Work based experience |  |  | **x** | **x** | **x** |  | **x** | **x** |  |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |
| *Written Assignment*  | **x** |  |  | **x** | **x** |  | **x** |  | **x** | **x** |
| *Examination*  |  | **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 quantification and pricing of construction is an essential element within the successful planning and operation of construction. It is one of the challenges that construction managers face on both UK and international projects

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**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) |
|  24 Jan 19 | New | Sept 19 | New |   |
|  |  |  |  |  |