1. **Title of the module**

QUSU5004 Design Economics

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 contribute**

BSc (Hons) Quantity Surveying

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

On successfully completing the module students will be able to:

1. Analyse macroeconomic conditions and local economic conditions that impact on the construction industry.
2. Assess the, feasibility, budgeting and viability of construction including potential planning conditions.
3. Critical review of design proposals to ensure that they maximise potential outcomes in the most efficient and effective use of resources.
4. Critically evaluate designs to assess the effective and efficient use of materials and resources including construction processes, scheduling and fabrication.
5. Explore value engineering concepts to ensure that value judgments include social, aesthetic and end user considerations.
6. Analyse how environmental and social considerations are dealt with in a market driven construction industry.
7. **The intended generic learning outcomes.**On successfully completing the module students will be able to:
8. Demonstrate in-depth research.
9. Apply theoretical ideas to inform judgements.
10. Critically analyse of information and problems.
11. Demonstrate adaptability and flexibility to identify alternative solutions to problems.
12. Critically evaluate with social and cultural awareness.
13. **A synopsis of the curriculum**

Design Economics critically explores the relationship between the construction industry and macroeconomic and microeconomic conditions, and the feasibility and viability of construction. Primarily concerned with the design phase of construction this approach encourages an informed review of design proposals to ensure that they represent ‘value’ and that decision making is based on a thorough analysis of markets, the assessment of alternative design solutions and a full understanding of the impact of design decisions. The module also considers the importance of less tangible design economics such as aesthetics, environmental impact, societal concerns and the requirements of end users. It also questions how these are addressed within a market driven construction industry.

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

# Robinson, H. and Symonds, B. (2015). *Design Economics for the Built Environment: Impact of*

# *Sustainability of Project Evaluation. Wiley Blackwell*

# Kelly, J. Male, S. (1992). *Value Management in Design and Construction: The Economic Management*

# *Projects.*  Taylor & Francis

1. **Learning and teaching methods**

The total study time for this module is 150 hours incorporating face-to-face teaching, 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 (80%)

Video presentation 20 minutes (20%)

B. 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* | *8.6* | *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** | **x** |
| Teaching | **x** | **x** | **x** | **x** | **x** | **x** | **x** |  |  |  |  |
| Work based experience | **x** | **x** | **x** | **x** | **x** |  |  | **x** | **x** |  |  |
| **Assessment method** |  |  |  |  |  |  |  |  |  |  |  |
| *Written assignment* | **x** | **x** | **x** | **x** |  |  | **x** | **x** | **x** | **x** |  |
| *Video presentation* |  |  |  |  | **x** | **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 testing of construction proposals through the review of feasibility viability and budgeting set against macroeconomic contexts opens up discussion about the global position of markets and the analysis of construction within market driven economies.

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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 |  |
|  |  |  |  |  |