

## Module specification

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Module Code	AUR494_AURH494
Module Title	Quantity Surveying 1
Level	4
Credit value	10
Faculty	Faculty of Art, Computing and Engineering
HECoS Code	100217
Cost Code	GABE

## Programmes in which module to be offered

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Programme title	Is the module core or option for this programme
HNC Construction Technology	Option
BSc(Hons) Architectural Design Technology	Option
BSc(Hons) Building Surveying Degree Apprenticeship	Option
BSc(Hons) Building Surveying	Option
BEng(Hons) Civil Engineering Degree Apprenticeship	Option
BSc(Hons) Construction Management Degree Apprenticeship	Option
BSc(Hons) Construction Management	Option
BSc(Hons) Quantity Surveying Degree Apprenticeship	Core
BSc(Hons) Quantity Surveying	Core

## Pre-requisites

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None

## Breakdown of module hours

Learning and teaching hours	18 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
<b>Total active learning and teaching hours</b>	<b>18 hrs</b>
Placement / work based learning	0 hrs
Guided independent study	82 hrs
<b>Module duration (total hours)</b>	<b>100 hrs</b>

<b>For office use only</b>	
Initial approval date	3 <sup>rd</sup> July 2024
With effect from date	September 2024
Date and details of revision	
Version number	1

## Module aims

The principal aim of 'Quantity Surveying 1' is to explain the role of the quantity surveyor in the measurement and analysis of cost, budgetary control, valuation and payment, and to provide opportunities for students to develop appropriate skills, knowledge, experience and behaviours through a mixture of academic study and practical activities.

The module also aims to demonstrate how quantity surveyors make a significant contribution to the work of those teams of construction professionals engaged in the development of new buildings and infrastructure, and the re-use, maintenance and improvement of existing built assets through an informed understanding of costs, quantities and timescales.

## Module Learning Outcomes - at the end of this module, students will be able to:

1	Describe the role and responsibilities of the Quantity Surveyor in providing consultancy services in developing, maintaining and upgrading buildings and/or civil engineering infrastructure.
2	Formulate cost estimates, budgets and valuations in response to given sets of circumstances utilising appropriate software, technical literature and design codes and standards that accord with established quantity surveying practice.

## Assessment

### Indicative Assessment Tasks:

This section outlines the type of assessment task the student will be expected to complete as part of the module. More details will be made available in the relevant academic year module handbook.

'Quantity Surveying 1' will be assessed through a series of individual pieces of coursework which will combine in aggregate to arrive at the recommended final assessment mark for the subject. Coursework will comprise a mixture of individual and group tasks that explore central themes in the practice of quantity surveying, to replicate situations that quantity surveyors engage in during the appraisal, measurement, cost analysis, budgetary control, valuation and payment associated with building and civil engineering projects.

The nature of individual pieces of coursework will vary at the discretion of the module tutor, so that learning outcomes are achieved through the application of a range of personal and interpersonal skill sets including effective research, teamwork, accuracy in the measurement and recording of quantities and costs, technical and financial analysis, estimating and budgetary control, and the effective use of appropriate digital technologies and software.

Coursework will comprise at least three discrete sets of tasks, including at least one in the form of a group exercise, all of which will seek to provide students opportunities to demonstrate knowledge and understanding in theoretical, technical and practical aspects of quantity surveying practice.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1 & 2	Coursework	100

## Derogations

There are no derogations associated with this module.

## Learning and Teaching Strategies

Learning and teaching strategies in the context of 'Quantity Surveying 1' will accommodate both didactic and supervised practical opportunities to ensure that students gain knowledge and understanding through traditional teaching delivery, and are able to apply it through practical quantity surveying activities in the development of cost analyses, budgetary estimates, valuations and financial reports in accordance with established quantity surveying best-practice. Delivery will incorporate the principles of the University's Active Learning Framework (ALF), so that learning opportunities are both synchronous and asynchronous, and are supported by an accessible range of material resources.

Class-based study will comprise didactic sessions that consider theoretical and technical application in the practice of quantity surveying, and will therefore be informed by associated legal and regulatory frameworks, established methodologies in the measurement of building materials, components and systems, and best practice in the preparation of estimates, valuations, financial forecasts and reports.

Class-based study will inform activities associated with LO2 where students will be required to measure and quantify building materials, components and systems, and prepare structured analyses through 'taking-off' quantities and the application of associated costs to arrive at reasoned financial estimates and valuations in response to given project scenarios.

Students will be expected to become familiar with extracting technical and dimensional information from scaled drawings, specifications and schedules, and to utilise appropriate digital software in the preparation of their work.

Module tutors should ask to receive long-hand and/or draft calculations associated with final estimates, valuations and financial reports prepared in respect of LO2, so that they can satisfy themselves that appropriate methods and techniques have been applied in the preparation of individual pieces of coursework.

## Indicative Syllabus Outline

The role and responsibilities of the Quantity Surveyor:

- professional specialisms and working as part of a team
- economics, socio-economics and costs
- time, cost, quality and value-drivers
- digitisation and applied quantity surveying software
- legal and regulatory frameworks
- procurement, tendering and contracts
- framework agreements
- advising and communicating information and data to clients and stakeholders
- obtaining, accounting for and managing finance

Quantity surveying:

- costs and cost control

- budgeting and valuation
- measurement and data capture
- quantification in support of design, production information and commercial management
- New Rules of Measurement (NRM) / Standard Method of Measurement (SMM)
- 'taking-off'
- contractual mechanisms
- conflict avoidance/dispute resolution

## Indicative Bibliography:

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Please note the essential reads and other indicative reading are subject to annual review and update.

### Essential Reads

Cartlidge, D. (2022), *Quantity Surveyor's Pocket Book*. 4th, new ed. Abingdon: Taylor & Francis Ltd.

### Other indicative reading

Cartlidge, D. (2023), *New Aspects of Quantity Surveying Practice*. 5th ed. Abingdon: Taylor & Francis Ltd.

Keung, C. W. C., Yeung, K. L. D. & Cheung, S. O. (2021), *Quantity Surveying Practice: The Nuts and Bolts*. Abingdon: Taylor & Francis Ltd.

### Other sources:

Royal Institution of Chartered Surveyors [www.rics.org](http://www.rics.org)

Chartered Institute of Architectural Technologists: [www.ciat.org.uk](http://www.ciat.org.uk)

Royal Institute of British Architects [www.architecture.com](http://www.architecture.com)

Chartered Institute of Building [www.ciob.org.uk](http://www.ciob.org.uk)

Ordnance Survey [www.ordnancesurvey.co.uk/](http://www.ordnancesurvey.co.uk/)

Institution of Civil Engineers [www.ice.org.uk](http://www.ice.org.uk)

Designing Buildings Wiki [www.designingbuildings.co.uk](http://www.designingbuildings.co.uk)

Institution of Structural Engineers [www.istructe.org.uk](http://www.istructe.org.uk)

IHS Database [www.ihsti.com](http://www.ihsti.com)