Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	AUR5A1
Module Title	Construction Management 2
Level	5
Credit value	20
Faculty	Faculty of Arts, Computing & Engineering
HECoS Code	100151
Cost Code	GABE

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc (Hons) Construction Management	Core
BSc (Hons) Construction Management Degree Apprenticeship	Core

Pre-requisites

None

Breakdown of module hours

Learning and teaching hours	24 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	6 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	**30** hrs
Placement / work-based learning	0 hrs
Guided independent study	170 hrs
Module duration (total hours)	200 hrs

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Initial approval date	3rd July 2024
With effect from date	September 2024
Date and details of revision	
Version number	1

Module aims

The module will provide students with the necessary underpinning knowledge and appreciation of the overall planning, coordination, supervision, and control, both physical and monetary, of a construction project from inception to possession of site, to the completion of the scheme

Students will be able to describe how the construction process is managed within a multi-disciplinary team and to identify and explain how construction sites and operations affects health and safety and the environment, in terms of technical, contractual, and legislative requirements relating to a sustainable construction project.

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

1	Demonstrate an understanding of the key concepts, theories and principles used in construction and the management of construction.
2	Understand the context in which the process of construction operates, including the legal, business, social, economic, health and safety, cultural, equality and inclusion, technological, physical, environmental, and global sustainable influences, including the relationship to digital technologies and the United Nations Sustainable Development Goals.
3	Demonstrate the collaborative linkages and interdisciplinary relationships between the functions of construction and the other disciplines of the built environment and the appropriate stakeholder's roles and responsibilities.
4	Use and analyse appropriate generic and bespoke software that supports construction and digital construction.

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.

Assessment 1 will be practically assessed in a simulated Construction Site office (2 hrs)
Assessment 2 will comprise of a 2 hr in class examination.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1,4	Practical	50
2	2,3	Examination	50

Derogations

The pass mark for this module is 40%, and a minimum of 40% must be achieved in each assessment element.

Learning and Teaching Strategies

The module will be presented to students through planned lecture series and tutorials. An active and inclusive approach is used to engage students in the topics and will involve individual, group work and flipped learning experiences aligned to the university's Active Learning Framework (ALF). The approach offers students a flexible and adaptive learning experience that can accommodate a range of options that includes both on campus learning and remote learning where appropriate.

The Moodle VLE and other on-line materials and resources will be available to support learning. ALF offers a balance between the classroom elements and digitally enabled activity incorporating flexible and accessible resources and flexible and accessible feedback to support learning.

Guest lecturers with specific topic expertise will be encouraged, from within the University or through the professional network related to the Built Environment. Site visits, practical activities, use of software workshops and case studies will be used where possible to enhance learning.

Tutorials – Close interaction with students ensuring that the work presented during lectures has been understood, with specific help being given to overcome any learning problems, should they occur.

Indicative Syllabus Outline

Construction Management Theory.

Contract requirements.

Site preparation, access, storage, labour, materials and plant.

Statutory Undertakers,

Considerate Construction

Environmental Assessments.

People Management

Teams and integrated teams

Leadership, and leadership styles, motivating, coordinating, controlling and communicating

Communicating with stakeholders.

Planning, Organisation and Control.

Planning and scheduling – digital planning tools, Critical path analysis, Gantt charts, resource levelling.

Key performance indicators

Construction Health, Safety and Welfare and other key pieces of construction related regulations

Indicative Bibliography:

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

Essential Reads

Harris, P. F., McCaffer, P., Baldwin, A., Edum-Fotwe, F. (2021), *Modern Construction Management*. 8th ed. New York: John Wiley And Sons Ltd.

Other indicative reading

CIOB. (2014), *Chartered Institute of Building Code of Practice for Project Management for Construction and Development*, 5th Edition. Malaysia: Wiley Blackwell.

Cooke, B, Williams, P. (2009), *Construction Planning, Programming and Control.* Oxford: Wiley

Chartered Institute of Architectural Technologists www.ciat.org.uk

Chartered Institute of Building www.ciob.org.uk

Ordnance Survey www.ordnancesurvey.co.uk/

Royal Institution of Chartered Surveyors www.rics.org

Institution of Civil Engineers www.ice.org.uk

Royal Institute of British Architects www.architecture.com

Designing Buildings Wiki www.designingbuildings.co.uk

Institution of Structural Engineers (www.istructe.org.uk)

Other sources:

IHS Database www.ihsti.com