Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	AUR697
Module Title	Project Management
Level	6
Credit value	20
Faculty	Faculty of Arts, Computing & Engineering
HECoS Code	100812
Cost Code	GABE

Programmes in which module to be offered

Programme title	Is the module core or option for this programme
BSc (Hons) Architectural Design Technology	Core
BSc (Hons) Building Surveying	Core
BSc (Hons) Building Surveying Degree Apprenticeship	Core
BEng (Hons) Civil Engineering Degree Apprenticeship	Core
BSc Civil Engineering Studies	Core
BSc (Hons) Construction Management	Core
BSc (Hons) Construction Management Degree Apprenticeship	Core
BSc (Hons) Quantity Surveying	Core
BSc (Hons) Quantity Surveying 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	0 hrs
Project supervision (level 6 projects and dissertation modules only)	0 hrs
Total active learning and teaching hours	24 hrs
Placement / work-based learning	0 hrs
Guided independent study	176 hrs
Module duration (total hours)	200 hrs

For office use only	
Initial approval date	3rd July 2024
With effect from date	September 2024

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Date and details of revision	
Version number	1

Module aims

The module aims to enable students to gain an understanding and application of a range of project management tools and techniques (including Value Engineering, Lean Construction techniques and digital tools such as BIM (Building Information Modelling)) from inception to post completion review and have the ability to apply this thorough multi-disciplined teams, across a range of sectors and scenarios.

Students will engage with the latest technological advancements relating to project delivery, with specific consideration given to the BIM process, theories of people and information management, and achieving successful collaboration and sharing of data amongst the project team, supported by IT.

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

1	Evaluate the effective use of project management control systems and techniques across a multi-disciplinary construction project example.
2	Critically reflect on the implications of project management from inception through to post completion review (the project life cycle) and scheme-by-scheme measures of success, including considerations of commercial, risk and environmental management.
3	Apply directed research methodologies and problem-solving techniques to critically analyse a multi-disciplinary construction project, to assess current and future applications and trends for Building Information Modelling, immersive technology and other digital tools that support the management process.
4	Synthesise the findings of relevant research and assumptions against a multi-disciplinary construction project example

Assessment

Indicative Assessment Tasks:

Assessment 1 Students, in groups, will be presented with a complex and challenging multi-disciplinary construction project (indicative word count: 3,000 words) The assessment will be based on developing an understanding of project management principles, processes and digital tools leading to the application of these understandings to the multi-disciplined project example.

Assessment 2 Students will be required to reflect on the life cycle management of the project (indicative word count: 1,000 words)

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1,3 & 4	Group Project	75
2	2	Written Assignment	25

Derogations

None

Learning and Teaching Strategies

The module will be presented to students through planned lectures and project reviews. This will be followed by seminars and group tutorials where project management processes, procedures and strategies for case studies will be discussed. The reviews will assess progress on the final assessment and will allow students to share information and feedback.

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.

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

- Definition of a project and project management and analysis of theory and practice.
- Project manager roles and responsibilities, competencies, and managerial skills.
- Examination of life cycles and sustainability, teams and motivation, quality management and continuous improvement.
- Stakeholder definitions, types, key differences, and relationships with the project.
- Professional Bodies, Codes of Conduct and Ethics.
- Defining scope of Project.
- Setting aims and objectives.
- Project Execution Plan.
- Value Management.
- Key performance indicators (KPIs).
- Lean construction.
- Building Information Modelling (BIM).
- Immersive Technology tools.
- Resource management.
- Reporting and communication process.
- Project review and evaluation.
- Risk Managing including Environmental and Commercial.
- Examination of how theory, together with reference to health and safety aspects, sustainable considerations, and commercial awareness, interact.

Indicative Bibliography:

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

Essential Reads

Fewings, P. and Henjewle, C. (2019), *Construction Project Management: An Integrated Approach*. 3rd ed. London: Routledge.

Other indicative reading

Code of Practice for Project Management for Construction and Development Wiley Blackwell, 5th ed

Williams, M, Collingwood, V, (2008), *The Principles of Project Management.* Farnham: SitePoint.

Hardin, B & McCool, D (2015), *BIM and Construction Management: Proven Tools, Methods and Workflows.* Sussex: Sybex.

Race, S. (2013), *BIM Demystified*. London: RIBA.

Young, T.L. (2016), *Successful Project Management*. 5th ed. London: Kogan Page.

Association of Project Management Body of Knowledge 7th ed

Other indicative reading

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