Prifysgol Wrecsam
Wrexham University

Module specification

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Module Code	AUR6A3
Module Title	Major Project
Level	6
Credit value	40
Faculty	Faculty of Arts, Computing and Engineering
HECoS Code	GABE
Cost Code	100812

Programmes in which module to be offered

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

Pre-requisites

N/A

Breakdown of module hours

Learning and teaching hours	10 hrs
Placement tutor support	0 hrs
Supervised learning e.g. practical classes, workshops	0 hrs
Project supervision (level 6 projects and dissertation modules only)	38 hrs
Total active learning and teaching hours	48 hrs
Placement / work-based learning	0 hrs
Guided independent study	352 hrs
Module duration (total hours)	400 hrs

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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

This module aims to provide students with an opportunity to complete a major project to support comprehensive understanding of management principles and practice, design and construction in the development of buildings and infrastructure. The module focuses on developing critical appraisal skills and practical knowledge necessary for effectively carrying out projects and evaluating and optimising performance across various contexts.

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

1	Integrate appropriate theoretical and practical methods including commercial risk and environmental management to the critical analysis and evaluation of construction and infrastructure problems
2	Integrate research and project management methodologies and planning in investigating the subject matter relevant to the project.
3	Implement the appropriate stages of a project which may include: specification, task analysis, search of current information sources, consider options and plan and cost solutions, select and design a solution, construct/implement solution, test and evaluate the solution and present this information in an engineering report.
4	Identify solutions to enable sustainable, accessible, and inclusive environments that are fit for purpose.
5	Communicate the results in the form of an oral presentation, with due consideration given to commercial implications.
6	Critically reflect on the need for a high level of professional and ethical conduct in their field of employment. together with an awareness of professional body codes of conduct, duty of care, corporate responsibility, customers, and user needs, including the wider commercial, economic, social, and engineering context and public perception.

Assessment

Indicative Assessment Tasks:
Students will be assessed through negotiated learning methods that align to their chosen topic to satisfy the six learning outcomes throughout the module.

Assessment number	Learning Outcomes to be met	Type of assessment	Weighting (%)
1	1-6	Negotiated Learning	100%

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 learning and teaching strategies for this module prioritise student-centred, experiential learning. This will involve facilitating collaborative discussions to identify project topics aligned with students' interests and career aspirations. Emphasis is placed on developing critical thinking and problem-solving skills through a real-world project. Tutorials with the module leader will provide personalised guidance and feedback, while workshops and lectures will offer opportunities for peer learning and skills development.

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.

This will therefore empower students to take ownership of their learning journey, ultimately preparing them for professional practice in the built environment field.

Students will be assessed through negotiated learning methods that align to the six learning outcomes throughout the module, providing opportunities to take ownership of their learning experience, develop skills in autonomy and self-regulation, encouraging critical thinking, creativity, and independent inquiry.

As the module is delivered to students on a variety of programmes, the learning and teaching strategies will be tailored appropriately for each cohort and the individuals' chosen project through the facilitation of tutorials.

For Degree Apprenticeship students, the Major Project must be derived from the workplace and be negotiated with the agreement of both the employer organisation and the Module Tutor.

Indicative Syllabus Outline

The syllabus supports students' investigation into project management techniques, facilitating student-led inquiry and covers the following processes:

- Project initiation and business case
- Project planning
- Town Planning and Building Regulations considerations
- Statutory Regulations and Codes of Practice
- Stakeholder mapping and communication management
- Risk identification, rating, logging, managing and mitigation
- Quality management systems
- Procurement
- Change management and variations
- Performance management, project monitoring, reporting and control
- Project evaluation

Indicative Bibliography:

Essential Reads
Bell, J. and Waters, S. (2018), *Doing Your Research Project: A Guide for First-time Researchers.* 7th ed. Maidenhead: OU Press.

Other indicative reading
Chartered Institute of Building www.ciob.org.uk

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

Royal Institute of British Architects www.architecture.com

Ordnance Survey www.ordnancesurvey.co.uk/

Royal Institution of Chartered Surveyors www.rics.org

Institution of Civil Engineers www.ice.org.uk

Designing Buildings Wiki www.designingbuildings.co.uk

Institution of Structural Engineers www.istructe.org.uk

IHS Database www.ihsti.com