



MODULE SPECIFICATION

Part 1: Information			
Module Title	Design Project		
Module Code	UBLLXE-30-3	Level	Level 6
For implementation from	2018-19		
UWE Credit Rating	30	ECTS Credit Rating	15
Faculty	Faculty of Environment & Technology	Field	Architecture and the Built Environment
Department	FET Dept of Architecture & Built Environ		
Contributes towards			
Module type:	Standard		
Pre-requisites	Building Services Applications 2018-19		
Excluded Combinations	None		
Co- requisites	Mechanical Services 2018-19		
Module Entry requirements	None		

Part 2: Description
<p>Educational Aims: See learning outcomes.</p> <p>Outline Syllabus: The following is indicative of the subject areas likely to be covered although not necessarily in this order or with equal weighting:</p> <p>Design Management: performance criteria, design for commissioning, design for maintenance, sketches and schematics, co-ordination, BIM.</p> <p>Environmental Evaluation: site analysis, microclimates, fabric analysis, dynamic analysis, load estimation, daylighting analysis.</p> <p>Detailed Design: Review of calculation techniques, Heating system design, Hot and cold water, Comfort cooling and refrigeration systems, Control systems design and specification, Space standards, Feature lighting, Room acoustic design and noise control.</p>

STUDENT AND ACADEMIC SERVICES

Teaching and Learning Methods: Scheduled learning Students will spend 3 hours weekly in a design studio environment simulating the role of a lead building services engineer, managing a complete design package for the services under their responsibility and undertaking the detailed design of either the mechanical or electrical services. Academic lectures will be accompanied by guest lecturers from industry, covering the latest in design theory.

Independent learning includes hours engaged with essential reading, assignment preparation and completion etc.

Part 3: Assessment

The Strategy

This project module will require students to assume the role of professional engineers and undertake a wide range of activities associated with such a role. Given the studio based learning strategy, a portfolio submission in two parts is an appropriate assessment strategy.

The controlled assessment will be a presentation of their project.

The Assessment

Component B – portfolio of work including site analysis, fabric analysis, design information management plans and design criteria, design drawings, specification and calculation dossier.

Component A - Presentation

A presentation of the final design proposal will be required to ensure good communication skills.

The students' fully worked design will be submitted at the end of the second semester, at which time students will also present their proposals orally to staff and peers. It is anticipated that panel will include independent external visiting members, drawn from the profession locally.

First Sit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		37 %	Portfolio 1 (2000 words)
Portfolio - Component B		38 %	Portfolio 2 (2000 words)
Presentation - Component A	✓	25 %	Presentation (20 minutes)
Resit Components	Final Assessment	Element weighting	Description
Portfolio - Component B		75 %	Site Analysis, Fabric Analysis, Design Information Management Plan and Services Design Criteria., Design Drawings, Specification Report and Calculation Dossier
Presentation - Component A	✓	25 %	Presentation (20 minutes)

STUDENT AND ACADEMIC SERVICES

Part 4: Teaching and Learning Methods		
Learning Outcomes	On successful completion of this module students will be able to:	
	Module Learning Outcomes	
	MO1	Develop a Building Information Management execution plan for a services design of a commercial or industrial project
	MO2	Undertake an environmental site analysis and present the environmental constraints and opportunities of the site
	MO3	Propose construction materials and built form to achieve environmental objectives (thermal, visual, acoustic, air quality)
	MO4	Select design criteria appropriate to a range of building services systems
	MO5	Select building services systems to meet performance criteria and prove through evidence, reasoning and calculation that the chosen systems will satisfy those criteria
	MO6	Represent mechanical or electrical systems in written and drawn form, using conventions accepted by the construction industry
	MO7	Apply computer modelling techniques to the design of building services systems
	MO8	Demonstrate the environmental performance and sustainability of the design using comparison to establish assessment mentors and benchmarks
Contact Hours	Contact Hours	
	Independent Study Hours:	
	Independent study/self-guided study	228
	Total Independent Study Hours:	228
	Scheduled Learning and Teaching Hours:	
	Face-to-face learning	72
	Total Scheduled Learning and Teaching Hours:	72
	Hours to be allocated	300
	Allocated Hours	300
Reading List	<p>The reading list for this module can be accessed via the following link:</p> <p>https://uwe.rl.talis.com/modules/ubllxe-30-3.html</p>	