

MODULE SPECIFICATION

Part 1: Information							
Module Title	Technology & Design Studio 2						
Module Code	UBPMXV-45-2		Level	Level 5			
For implementation from	2018-19						
UWE Credit Rating	45		ECTS Credit Rating	22.5			
Faculty	Faculty of Environment & Technology		Field	Planning and Architecture			
Department	FET [T Dept of Architecture & Built Environ					
Module type:	Proje	Project					
Pre-requisites		Studio 1 2017-18, Technical Studio 1 2017-18					
Excluded Combinations		None					
Co- requisites		None					
Module Entry requirements		None					

Part 2: Description

Overview: This module aims to apply the theories and concepts studied in Level 1.

To enable the student to provide design solutions to specific problems, a consolidating of the work on technology, structures, materials and building physics will be integrated and related to functional design. It provides analysis, synthesis and technical evaluation at differing scales of building design.

Educational Aims: In addition to the learning outcomes, the educational experience may explore, develop, and practise but not formally discretely assess the following:

Working as a member of a group and meeting obligations to others within the module cohort.

The use of learning resources in support of studio practice, including building Regulation Guidance and, in particular, research methods to support project development.

Professional habits of work, time-keeping and punctuality.

Outline Syllabus: Design Studio Syllabus

The work in this Module is project-based and the following examples are indicative of typical projects that the student would be expected to undertake:

STUDENT AND ACADEMIC SERVICES

A mix of traditional and computer aided design methods would be an integral aspect of any project.

A small introductory project to study aspects of fabric, components and finishes.

A design project in response to client needs including aspects of reuse refurbishment and ergonomics.

A research project into current environmental and sustainable design, including health and safety legislation.

An integrating project to develop functional aspects in the design of interior space and provide an environment for a good human experience.

To develop in each design studio project; a concept, scheme development, analysis and detail design up to working drawings.

To understand how specific regulations play a defining role in shaping design projects.

Technology Syllabus

Technology and Design Studio 2 introduces the principles of contemporary 'framestructured' construction as these are employed in a non-domestic medium-to-large scale of building. This technology is discussed with reference to the thematic questions and traditional construction introduced at Level 1. These key questions and associated syllabus elements are as follows:

Structural Principles and the sizing of structural elements used in contemporary technology using framed structures.

Material Properties of contemporary building materials (concrete, plastic composites, steel, for example)

Environmental Comfort in domestic and non-domestic environments.

Building Physics and thermal performance in domestic and non-domestic buildings.

Construction Detailing using contemporary materials.

Poetics and Problem-Solving – integration of contemporary building technology with architectural ideas.

Assembly, Maintenance and Safety – current construction processes, comparative analysis of procurement routes and assessment of health and safety.

Data and Research – methods of predicting building performance; and fire escape in non-domestic buildings.

Ethics and Value – the financial measurement of building construction, development for profit and the ethical role of the construction professional.

The Technical Element of the Portfolio submission will be in the form of a Technical Logbook. This will include further in-depth explanation of a students projects technical strategies and detail designs demonstrating their learning of this technical syllabus. This will include: □

General Arrangement Drawings – demonstrating the organisation of structure and construction envelope for a frame-structured building of three or more storeys; including service runs, fire strategy and environmental strategy.

The design and explanation of Building Elements – in detail model and detail drawing that demonstrates how construction detailing has informed an architectural idea; and how it conforms to necessary regulations.

STUDENT AND ACADEMIC SERVICES

Teaching and Learning Methods: This module will be delivered as follows:

108 hours directed contact time that includes lecture based sessions, workshop sessions, small-group design seminars offering specific tutorial support on project work, and skills workshops led by technical support staff.

320 hours are scheduled for the assimilation and development of knowledge through coursework preparation in the form of design projects, with 150 of those hours identified as self-directed learning within a timetabled Design Studio space.

A final 22 hours are scheduled for final preparation of the portfolio assessment through informal reviews.

Total 450 hours

Scheduled learning

As detailed above the strategy for the module is to provide the students with an integrated understanding of architectural design and construction technology delivered as a studio-based and problem-centred learning experience. To further develop the concepts and theories of construction, whilst developing an attitude towards sustainable and environmental design using project briefs as a vehicle for this output. This will be achieved through the following methods: lectures, seminars, small group tutorials, project supervision, demonstration, practical classes and workshops; fieldwork; supervised time in studio/workshop.

Independent learning

In order to fulfil the requirements of the module a certain amount of independent learning is required. This time is used to support the taught contact sessions and in preparation of the technical assessment. This will be achieved through the following methods: hours engaged with essential reading, verbal and visual presentation preparation, portfolio preparation and completion etc.

Part 3: Assessment

100% of the module mark is awarded for the Portfolio submitted at the formal assessment point for the module. The Design Portfolio, is formally understood by professional validating bodies as the vehicle suitable for the assessment of an architectural technology student and, as such is the assessment vehicle identified for this module.

Formative review and assessment occurs at the conclusion of each of the design projects taken during the year. Each project may differently emphasise an aspect of the learning outcomes identified for the module and this particular emphasis is expressed to the student as part of the project brief.

First Sit Components	Final Assessment	Element weighting	Description				
Report - Component A		20 %	Technical report				
Portfolio - Component A	✓	80 %	Portfolio				
Resit Components	Final Assessment	Element weighting	Description				
Report - Component A		20 %	Technical report				
Portfolio - Component A	✓	80 %	Portfolio				

Part 4: Teaching and Learning Methods								
Learning Outcomes	On successful completion of this module students will achieve the following learning outcomes:							
	Module Learning Outcomes	Reference						
	Generate professional-standard communications related to fabric, cor	MO1						
	and finishes Prepare designs in response to a well defined brief focussing on susta	ainable	MO2					
	design and environmental impact	aniabio						
	Investigate, analyse and develop detailed design solutions		MO3					
	Apply relevant regulations to design projects		MO4					
	Understand the principle of elemental costing		MO5					
	Understand and demonstrate the principles of information and commit		MO6					
	technologies and desktop publishing to design, process and communicate integrated text, images and illustrations in multimedia sequences, reports and documents							
	Reproduce knowledge of contemporary (frame-structured) construction	on .	MO7					
	technologies and combine principles and detail of this technology with design							
	decision-making in the design of a general arrangement layout for the fabric,							
	services and structure of a non-domestic building typology of three or storeys	more						
	Apply knowledge of contemporary construction techniques such that	technical	MO8					
	strategies and materials are selected in the detailed design of an architectural							
	component that is refined to convey a declared architectural intention							
Contact Hours	inacpendent study nodis.							
	Independent study/self-guided study	32	320					
	Total Independent Study Hours:	20						
	Scheduled Learning and Teaching Hours:							
	Face-to-face learning	13	130					
	Total Scheduled Learning and Teaching Hours:	1:	30					
	Hours to be allocated	4:	50					
	Allocated Hours	450						
Dooding	The reading list for this module can be accessed via the following lists.							
Reading List	The reading list for this module can be accessed via the following link: https://uwe.rl.talis.com/index.html							

STUDENT AND ACADEMIC SERVICES

Part 5: Contributes Towards

This module contributes towards the following programmes of study: