

Liverpool John Moores University

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Title: Integrated Design 1: options for resilient living
Status: Definitive
Code: **7122MAS** (129274)
Version Start Date: 01-08-2021

Owning School/Faculty: Liverpool School of Art & Design
Teaching School/Faculty: Liverpool School of Art & Design

Team	Leader
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Academic Level: FHEQ7 **Credit Value:** 30 **Total Delivered Hours:** 92
Total Learning Hours: 300 **Private Study:** 208

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	8
Seminar	28
Tutorial	56

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Precedent Study	10	
Artefacts	AS2	Architectural Design	50	
Artefacts	AS3	Technical and Environmental Design Studies	40	

Aims

Integrated Design 1: options for resilient living

[AS1]

To define, investigate, critically evaluate a design precedent of relevant typology in response to brief requirements intending to initiate a design response to the thematic brief.

[AS2]

To receive and develop a design brief, to appraise the brief, to prepare an initial design response, to prepare scheme drawings/models and to design a presentation carefully, sufficient to fully explain the proposals to a professional and nonprofessional audience alike. The drawings and models should 'speak for themselves' and the assignments may be assessed without recourse to verbal presentations. Students will be expected to view high quality design as a prime mover in contemporary architectural culture and to investigate, conceive, produce and evaluate design proposals for the sites previously explored in the first semester urban design work. Attention is placed on the development of skills in architectural competition methodology, with particular competence and skill in drawing and communicating architectural ideas and detail.

[AS3]

To demonstrate understanding of key technological principles in the design of buildings, and the skill to develop specific technical design solutions in relation to the project. Students will explore the integrated application of appropriate environmental engineering thinking, structural engineering and constructional detailing, as well as interior and lighting design in three dimensions. Part of the design proposal will be explored in a model (varying from site to structure detail explorations) depending on the focus of the design response. This will be communicated through text, diagrams, and drawings, following the standards of competition presentations.

Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate architectural design projects through use of diagrams, images and written documentation.
- 2 Demonstrate, through application in design, knowledge and understanding of context and site analysis techniques, processes and communication.
- 3 Demonstrate a conceptual and critical approach to architectural design which integrates understanding of the needs and aspirations of building users.
- 4 Prepare a scheme design for a building of moderate complexity, in relation to a given context, using a range of media, and in response to a brief.
- 5 Demonstrate an appropriate level of competence in presentation techniques and acquired skills in the use of designated systems and equipment.
- 6 Investigate, evaluate and integrate constructional, structural and material strategies into a design project.
- 7 Investigate, evaluate and integrate strategies for environmental design and building services to create optimum internal environments in the context of sustainable design.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Report	1	2	5	
Artefact 1	2	3	4	5
Artefact 2	6	7		

Outline Syllabus

This module will comprise a design output for a described architectural project, or range of scenarios, along with a series of linked technical studies.

The project focuses on different aspects depending on specialisation options.

For the March programme, the focus will be residential buildings. This will be the case for the future MA programme on Housing Design, Policy and Social Agency (provisional title) too.

The location for the project is embedded within the first semester design project (7121MAS), hence the site analysis has been covered in the work previously undertaken. A structured programme of activity will cover precedent -in relation to typological explorations- as primers and informants of the design project. The design period will alternate tutorials and reviews (seminars), to support the students' own creative design process. Students are encouraged to find their own preferred design methodology, developed from a range of precedents. Subsequent technical studies, dealing with environmental factors, building structure, materiality, interior and light explorations are introduced through lectures with subsequent support in tutorials.

Learning Activities

Each aspect of the module is initiated with a written brief and an introductory lecture. The module is taught through tutorials and design reviews which occur weekly during each task, and it is the students' responsibility to make best use of these.

The work is studio based with an emphasis on peer review, group learning and student led investigation. As a substantial piece of design work is central to the module much of the learning is self-directed through creative practice.

Lectures from across the Year 5 programme will also inform the work of this module, and there is a focus on the holistic nature of design.

Notes

Welcome to the Integrated Design 1 module. The module commences with analytical explorations of precedent studies in response to the focus of the design brief typologies, expected to underpin your design work. Following from this, design work from urban scale (emerging from your Urban Design 1 work) to building and interiors will lead to a complete proposal presented following competition methodology. A set of technical and environmental studies follow, so that the entire module effectively delivers a holistic study, from typological analysis, to critical considerations, design at different scales, and communication.