

Summary Information

Module Code	5131ASA
Formal Module Title	Environment and Technology 2: Use and application of Building Information Modelling
Owning School	Liverpool School of Art & Design
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Anthony Malone	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Jim Sloan	Yes	N/A
Simon Tucker	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Liverpool School of Art & Design

Learning Methods

Learning Method Type	Hours
Lecture	6
Workshop	30

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-MTP	MTP	January	12 Weeks

Aims and Outcomes

Aims	The aim of this module is to methodically inform students in topics of environmental design and Computer Aided Design. The module builds on the broad introduction given at Level 4, by focussing on the technical realisation of buildings through modelling, analysis, and design.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Model and graphically illustrate a building design project using the specified CAD software.
MLO2	Appraise the environmental performance of a building design project using the specified CAD software.
MLO3	Contextualise their project with reference to relevant precepts of sustainability
MLO4	Communicate succinctly through writing, drawings and diagrams an evaluation of their technological inquiries.

Module Content

Outline Syllabus
Lectures series are presented on the technology of environmental design. The lectures are intended to aid the technical realisation of work being produced in the design studio CAD Workshops give students the key skills necessary to represent their architectural ambitions. The syllabus covers techniques in presentation, architectural drafting, 3d modelling using both CAD and graphics methods, as well as the interface with CAD/CAM and rapid prototyping technology. A range of software is used in the key categories of CAD, BIM, environmental analysis and graphics.

Module Overview

Additional Information

This module supports the concurrent design modules (5123 ASA and 5124ASA) through lectures and workshops, challenging students in the technical aspects of their design development. The main assessment for the module follows a series of workshops on Building Information Modelling (BIM) and environmental analysis.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Report	Report	100	0	MLO4, MLO1, MLO2, MLO3