

Liverpool John Moores University

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Title: Technical & Environmental Design Studies (2)
Status: Definitive
Code: **7007MARCH** (117678)
Version Start Date: 01-08-2016

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:** 24 **Total Delivered Hours:** 48

Total Learning Hours: 240 **Private Study:** 192

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Practical	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Report of each workshop/technical review to be submitted for assessment.	25	
Artefacts	AS2	The integration of the knowledge gained into the associated Comprehensive Design Project	75	

Aims

This module will be facilitated via a series of 6 CDP project related workshop / technical reviews. Guests from ARUP and design tutors will advise each individual student, using student drawings and models as tools, on the ways in which each project should develop and integrate the information and advice given. A record of each tutorial session should be kept by each student for their design diary & academic portfolio.

Learning Outcomes

After completing the module the student should be able to:

- 1 1 Be knowledgeable about the engineering of zero CO2 buildings to complement the studio discussions on the topic
- 2 2 Be able to manage the progress of design work as 'architect' in preparation for specialist engineering and other input in a workshop environment.
- 3 3 Be able to present alternative strategies to discuss with specialists and to leave each workshop having clarified the optimal way forward on a CDP.
- 4 4 Understand the need to integrate all aspects of the Workshops into the CDP design.
- 5 5 Take notes of each session as a 'file note'.
- 6 6 Establish a line of communication with the specialist for further consultation if required.
- 7 7 Produce a sustainability report that addresses issues relating to sustainable building development incorporating; an estimated energy in use audit, choices for the structural and environmental design of the building and building fabric material selection explanations.
- 8 8 Detail the structural and environmental design of a complex building and produce strategic structural and environmental design drawings and diagrams.
- 9 9 Undertake design / consultation work on constructional matters.

Learning Outcomes of Assessments

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

Report 1	1	2	3	4	5	6
Artefact	4	7	8	9		

Outline Syllabus

The following workshops / technical reviews will take place in two groupings:

Group One

Workshop One: Environmental Strategies and Specification (1)

Workshop Two: Structural Strategies and Specification (1)

Workshop Three: Constructional Strategies and Specification (1)

Group Two

Workshop Four: Environmental Strategies and Specification (2)

Workshop Five: Structural Strategies and Specification (2)

Workshop Six: Constructional Strategies and Specification (2) and Procurement Strategies.

Learning Activities

An A4 record of each workshop / technical review to be submitted for assessment. The integration of the knowledge gained into the associated Comprehensive Design Project.

Notes

Additional information will be provided in Module Handbook and module component briefing documents.