

Liverpool John Moores University

Title: DESIGN STUDIO 2
Status: Definitive
Code: **5112BEUG** (118146)
Version Start Date: 01-08-2016

Owning School/Faculty: Built Environment
Teaching School/Faculty: Built Environment

Team	Leader
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Academic Level: FHEQ5 **Credit Value:** 24 **Total Delivered Hours:** 96
Total Learning Hours: 240 **Private Study:** 144

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	6
Practical	48
Tutorial	42

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Site appraisal	20	
Portfolio	AS2	Drawings & specifications	60	
Presentation	AS3	Presentation	20	

Aims

To enable the student to develop detailed building designs from self generate design concepts.

To further develop the student's ability to use CAD to produce 2D and 3D design and technical drawings.

Learning Outcomes

After completing the module the student should be able to:

- 1 Undertake and present a site analysis and evaluation of development potential.
- 2 Present a building design to a panel of critics.
- 3 Develop through research and site analysis an outline building design.
- 4 Investigate, analyse and resolve various design constraints and legal requirements to develop detailed design solutions from an outline design.
- 5 Apply 3D rendering to CAD modeling.
- 6 Prepare schedules for repetitive components and cross reference to general arrangement drawings.
- 7 Prepare and present a coordinated and managed set of architectural drawings, including architectural details using CAD.
- 8 Reflect on the development of architectural technology graduate skills.

Learning Outcomes of Assessments

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

Site appraisal	1						
Drawings & specifications	3	4	5	6	7	8	
Presentation	2						

Outline Syllabus

Project is to be based on a brief or idea for a medium sized, non domestic building.

Site analysis and concept design

Client requirements and user factors, proposals for project brief, design options.

Design constraints, suitability of the site, environmental impact, cost,

Legal requirements; statutory and other consent requirements

Presentation of design drawings using range of presentation techniques.

Analysis of design options, review and modification of proposals.

Detailed design development

Methods and techniques for preparing detailed design documentation.

Technical constraints, costs, health and safety, selection of materials, components and systems, performance requirements

Formulation of architectural details from first principles.

Integration and appreciation of structural system.

Integration and appreciation of services.

Preparation and coordination of design documentation

Use of CAD, 2 and 3D CAD to an advanced level and introduction to Revit

Printing to scale.

Graphical drawing standards for working drawings.

Correct annotation of details and interrelationships with other drawings.

General arrangement drawings, schedules, component and detail drawings

Learning Activities

Lectures, studio work, CAD tutorials, design reviews.

Notes

This module is studio based and focuses on the practical application of design and technical skills taught in other modules via the development of a design for a medium size non domestic project. A major focus of the module is the development of advanced 2 D and 3D CAD skills and application to larger building designs. The students will be expected to be reviewed throughout and produce a portfolio of work for submission at the end of the module.