

## Liverpool John Moores University

Title: BUILDING DESIGN SUITE  
Status: Definitive  
Code: **7442BEPG** (123546)  
Version Start Date: 01-08-2020

Owning School/Faculty: Civil Engineering and Built Environment  
Teaching School/Faculty: Civil Engineering and Built Environment

Team	Leader
Michael Farragher	Y
Aseel Hussien	

**Academic Level:** FHEQ7      **Credit Value:** 20      **Total Delivered Hours:** 33  
**Total Learning Hours:** 200      **Private Study:** 167

### Delivery Options

Course typically offered: Semester 1

Component	Contact Hours
Lecture	8
Practical	22
Tutorial	3

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Portfolio of drawings & report	70	
Presentation	AS2	Presentation of design	30	

### Aims

- 1. To enable the student to analyse buildings from an architectural engineering perspective.*
- 2. To develop awareness of the extent of building design software and its application to architectural engineering.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse buildings from an architectural engineering perspective.
- 2 Apply principles of sustainable architecture and engineering, and relevant statutory controls to a design.
- 3 Apply a range of design software to present professional designs and project documentation.
- 4 Present designs to a professional standard using a range of communication techniques.

## Learning Outcomes of Assessments

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

Portfolio of drawings & report	1	2	3
Presentation of design	4		

## Outline Syllabus

*Introduction to architectural engineering and design of building detail.*

*Functionality and application of drawing methods including Auto-CAD (2D and 3D), Revit and 3D Studio Max.*

*Application and production of different of 3D drawings: axonometrics, isometrics, perspectives and animation*

*Drawing Stages: conceptual design and 3D detailed components drawings.*

*Design development and presentation using different communication techniques.*

## Learning Activities

Illustrated lectures, studio workshops and tutorials will be designed to develop students' knowledge of building technology and apply this using design technology.

## Notes

This module will enable the student to confidently design and detail buildings of a more complex nature, giving due consideration to appropriate technology in the design and production of architectural detail drawings.