

# Architectural Engineering Project 1

## Module Information

2022.01, Approved

### Summary Information

Module Code	4217BEUG
Formal Module Title	Architectural Engineering Project 1
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

### Learning Methods

Learning Method Type	Hours
Lecture	20
Workshop	30

### Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

### Aims and Outcomes

Aims	To introduce the fundamental skills needed for the design process; To equip the student with the fundamental tools, including the necessary IT skills necessary to carry out an architectural engineering design project; To develop and refine the student's written, verbal, graphical and presentation skills.
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## After completing the module the student should be able to:

### Learning Outcomes

Code	Number	Description
MLO1	1	Investigate a range of architectural engineering design solutions for a simple commercial or domestic building.
MLO2	2	Use appropriate CAD and IT packages to produce architectural engineering design documentation.
MLO3	3	Communicate design solutions graphically, verbally and in writing.

### Module Content

Outline Syllabus	Students will be given the construction details of a non-complex commercial or domestic building and will be required to investigate sustainable and practical architectural engineering design solutions. Students will produce feasibility studies, design drawings, schedules, reports and associated documentation related to their design. The architectural engineering aspects should complement the building services systems, building function, building form and aesthetics to provide sustainable, energy efficient and workable solutions.
Module Overview	The aim of this module is to introduce the fundamental skills needed for the design process. The module will equip you with the fundamental tools, including the necessary IT skills necessary to carry out an architectural engineering design project. Also, you will be able to develop and refine your written, verbal, graphical and presentation skills.
Additional Information	The module is delivered through a multi-task project which requires students to produce designs based on the engineering and aesthetic requirements of a non-complex building. Interdisciplinary working is actively encouraged and facilitated and it is envisaged that students will be working alongside Building Services Engineering students on a complementary design project module.

### Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Portfolio	FEASIBILITY STUDY, DESIGN PROP	40	0	MLO1, MLO2
Presentation	DESIGN DOCUMENTATION & PRES	60	0	MLO2, MLO3

### Module Contacts

#### Module Leader

Contact Name	Applies to all offerings	Offerings
Laurence Brady	Yes	N/A

#### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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