Module Proforma

Approved, 2022.02

Summary Information

Module Code	4330BEUG
Formal Module Title	Design Project 1
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 4
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Saiful Bhuiyan	Yes	N/A

Module Team Member

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

Partner Module Team

Contact Name	Applies to all offerings	Offerings

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Lecture	11
Online	11
Workshop	33

Module Offering(s)

Offering Code	Location	Start Month	Duration
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 a building services engineering design project;To develop and refine the student's written, verbal, graphical and presentation skills.

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Investigate a range of building services design solutions for a simple commercial or domestic building and determine installation requirements.
MLO2	Use appropriate CAD and IT packages to produce building services design documentation.
MLO3	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 design solutions for a range of building services systems. Students will produce feasibility studies, design drawings, schedules, reports and associated documentation related to their design. The services to be designed include: above and below ground drainage; cold and hot water services; electrical small power distribution; lighting; wet central heating.

Module Overview
This module introduces the fundamental skills needed for the design process. It will equip you with the fundamental tools, including the necessary IT skills, to carry out a building services engineering design project. You will also develop your written, verbal, graphical and presentation skills.

Additional Information
The module in delivered through a multi-task project which requires students to produce designs based on the building services needs 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)	Learning Outcome Mapping
Centralised Exam	FEASIBILTY STUDY & DESIGN PROP	40	0	MLO2, MLO1
Portfolio	DESIGN DOCUMENTATION & PRES	60	0	MLO2, MLO3