

Building Services Engineering Project 1

Module Information

2022.01, Approved

Summary Information

Module Code	4215BEUG
Formal Module Title	Building Services 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 a building services 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 building services design solutions for a simple commercial or domestic building and determine installation requirements.
MLO2	2	Use appropriate CAD and IT packages to produce building services 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 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 equips you with the fundamental tools, including the necessary IT skills, to carry out a building services engineering design project.
Additional Information	The module is 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 Architectural Engineering students on a complementary design project module. In this module, the knowledge learning outcomes are K2, K3, K8 the behaviours learning outcomes are B1, B6 and the skills learning outcomes are S1, S2, S3 and S7.

Assessments

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

Module Contacts

Module Leader

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

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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