

Summary Information

Module Code	6338BEUG
Formal Module Title	Design Project 3
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Muhammad Ahmad	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
Hu Du	Yes	N/A
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	10
Workshop	30

Module Offering(s)

Offering Code	Location	Start Month	Duration
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To enable the student to work both collaboratively and individually on realistic projects that facilitate the development and integration of a range technical and professional skills within the context of building services.
-------------	---

Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Work as part of a team to critically evaluate the requirements, risks, and implications of a clients brief for a building services engineering project
MLO2	Apply building services engineering technology and management procedures to produce, and evaluate, conceptual designs for building services projects and to progress these to detailed solutions.
MLO3	Produce documentation to demonstrate how the project was organised and managed professionally and effectively within the team.
MLO4	Present project solutions to an expert panel.

Module Content

Outline Syllabus
The philosophy of engineering design and the wider issues relating to the economic, financial, political, social and environmental aspects of design. Interpreting and assimilating the project brief, client familiarisation, scope and requirements of the project, identification of legislative, health & safety and other constraints. Development and review of designs through to concept stage. Use of software as analytical, design and management tools. Selection and development of detailed solutions to set tasks, review, critical analysis and presentation of design solutions. Techniques for project management, planning, time management, work allocation, progress review, standards and quality control, record keeping and documentation.

Module Overview

This module aims to enable students to work both collaboratively and individually on realistic projects that facilitate the development and integration of a range of technical and professional skills within the context of building services.

Additional Information

This module brings together the students' learning throughout their study and further develops the project work undertaken at levels 4 and 5. The module requires the students to demonstrate professional standards both in the production of solutions to building services engineering projects and in the management of the process by which the solutions are developed in a team situation. Additionally, students will reflect on their professional development against the competence standards published by appropriate professional institutions. On the Building Services Engineering Degree Apprenticeship programme, the knowledge learning outcomes are K2, K3, K4, K5, K6, K7, K8, the skills learning outcomes are S1, S2, S4, S7, S8 and the behaviours learning outcomes are B4, B6 and B7.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Portfolio	Portfolio	65	0	MLO1, MLO2
Presentation	Presentation	15	0	MLO4
Report	Report	20	0	MLO3