

Building Services Engineering Project 3

Module Information

2022.01, Approved

Summary Information

Module Code	6223BEUG
Formal Module Title	Building Services Engineering Project 3
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 6
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Civil Engineering and Built Environment

Learning Methods

Learning Method Type	Hours
Lecture	10
Tutorial	10
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 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.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	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	2	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	3	Produce documentation to demonstrate how the project was organised and managed professionally and effectively within the team.
MLO4	4	Present project solutions to an expert panel and critically evaluate the skills and competences demonstrated in the completion of the project against the relevant competence criteria of appropriate professional institutions.

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. Personal professional development review. Development Planning.
Module Overview	This module enables you 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. This module brings together your learning throughout your study and further develops the project work undertaken at Levels 4 and 5.
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. In this module, the knowledge learning outcomes are K2, K3, K4, K5, K6, K7, K8, the behaviours learning outcomes are B4, B6, B7 and the skills learning outcomes are S1, S2, S4, S7.

Assessments

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

Module Contacts

Module Leader

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

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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