

Liverpool John Moores University

Title: BUILDING SERVICES DESIGN PROJECT
Status: Definitive
Code: **4100BEUG** (117992)
Version Start Date: 01-08-2016

Owning School/Faculty: Built Environment
Teaching School/Faculty: Built Environment

Team	Leader
Laurence Brady	Y
Derek King	
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Academic Level: FHEQ4 **Credit Value:** 24 **Total Delivered Hours:** 60
Total Learning Hours: 240 **Private Study:** 180

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	12
Tutorial	48

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Final project portfolio	60	
Report	AS2	Interim Feasibility report	20	
Presentation	AS3	Presentation	10	
Self Awareness Statement	AS4	Self Awareness Statement	10	

Aims

To equip the student with the fundamental tools, including the necessary IT skills,

*necessary to carry out a building services design project;
To introduce the fundamental skills needed for the design process;
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:

- 1 Investigate a range of building services design solutions for a simple commercial or domestic building
- 2 Determine all installation requirements for a range of building services systems
- 3 Use appropriate CAD and IT packages to produce building services design documentation.
- 4 Communicate design solutions graphically, verbally and in writing.
- 5 To identify and reflect upon the following aspects of personal development: strengths and weaknesses, motivations and values, ability to work with others.

Learning Outcomes of Assessments

The assessment item list is assessed via the learning outcomes listed:

Final project portfolio	2	3
Interim feasibility report	1	
Presentation	4	
WoW Skills Bronze	5	

Outline Syllabus

Students will be given the construction details of a small 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 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.

Learning Activities

It is foreseen that the project will be a two stage process, roughly divided between semesters 1 and 2. In semester 1 students will receive tuition on the use of CAD and relevant software, and will be taught the basics of building services system design. In semester 2 students will work on their individual design work under supervision.

Notes

The module is delivered through a multi-task project which requires students to produce designs based on the building services needs of a simple building. Inter-disciplinary working is actively encouraged and facilitated.