

Liverpool John Moores University

Title: ARCHITECTURAL ENGINEERING PROJECT 3
Status: Definitive
Code: **6224BEUG** (122831)
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment
Teaching School/Faculty: Civil Engineering and Built Environment

Team	Leader
Muhammad Waseem Ahmad	Y
Stephen Wynn	
Laurence Brady	

Academic Level: FHEQ6
Credit Value: 20
Total Delivered Hours: 50

Total Learning Hours: 200
Private Study: 150

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	10
Tutorial	10
Workshop	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	This portfolio completed collaboratively in teams but with individual responsibilities documents the developmental stages of the project from appraisal through concept design to detailed development. 1. Completed collaboratively in teams but with individual responsibilities documents the developmental stages of the project from appraisal through	65	

Category	Short Description	Description	Weighting (%)	Exam Duration
		concept design to detailed development. 2. Produced collaboratively in teams, documents the strategies and procedures by which the project was managed.		
Presentation	AS3	This presentation requires the students to communicate and justify their project solutions and complete an analysis of the resultant professional development.	15	
Report	AS2	This report, produced collaboratively in teams, documents the strategies and procedures by which the project was managed.	20	

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 architectural engineering.

Learning Outcomes

After completing the module the student should be able to:

- 1 Work as part of a team to critically evaluate the requirements, risks, and implications of a clients brief for a architectural engineering project
- 2 Apply architectural engineering technology and procedures to produce, and evaluate, conceptual designs for architectural engineering projects and to progress these to detailed solutions.
- 3 Produce documentation to demonstrate how the project was organised and managed professionally and effectively within the team.
- 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.

Learning Outcomes of Assessments

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

PORTFOLIO	1	2
PRESENTATION	4	
REPORT	3	

Outline Syllabus

The philosophy of 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 from appraisal through to concept stage.

Selection and development of detailed solutions to architectural engineering projects, review, critical analysis and presentation of solutions.

Use of industry standard software for analysis, simulation, detailing, design, presentation and specification.

Techniques for project planning, time management, work allocation, progress review, standards and quality control, record keeping and documentation.

Personal professional development review. Development Planning.

Learning Activities

Lectures, tutorials, seminars, and design studio sessions during which students will work in teams towards a project brief with a member of staff, who will act as client.

Notes

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.