

Building Engineering Research Project

Module Information

2022.01, Approved

Summary Information

Module Code	6226BEUG
Formal Module Title	Building Engineering Research Project
Owning School	Civil Engineering and Built Environment
Career	Undergraduate
Credits	40
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	20
Tutorial	20

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
SEP-CTY	CTY	September	28 Weeks

Aims and Outcomes

Aims	To enable students to complete a substantial piece of individual work and build on their expertise in a Building Engineering subject. To develop students' research, time management, presentation and written communication skills.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Identify a research question, problem or hypothesis and establish aims and objectives to support the investigation.
MLO2	2	Collate, and appraise existing knowledge in an Engineering field relevant to your programme and present a critical evaluation in the form of a literature review.
MLO3	3	Develop and refine a research and data collection strategy appropriate to the research question / problem posed.
MLO4	4	Source, collect, and analyse relevant and original qualitative and / or quantitative data.
MLO5	5	Conduct an appropriate practical and/or laboratory programme to validate theoretical research.
MLO6	6	Synthesise, analyse and critically evaluate the research findings using reasoned and logical arguments within a structured written framework and communicate the outcomes and methodology of research verbally and in written form.

Module Content

Outline Syllabus	Introduction to the Dissertation:The selection of a Research Topic and formulation of a research question.Establishing a research aim and setting / tailoring objectives to fulfil that goalThe structure and purpose of a dissertationResearch Approaches and StrategiesThe Inductive versus Deductive ApproachQualitative and Quantitative ResearchData Collection Strategies (Interviews, Field Tests, Lab Tests, Surveys, Questionnaires, Case Studies)The Knowledge Database. Effective Literature Searching and Literature ReviewsData Collection and AnalysisData Collection Tools including Bristol on-line surveysQualitative and Quantitative Data AnalysisData Analysis tools including SPSS and NVivo
Module Overview	The aim of this module is to enable you to complete a substantial piece of individual work and build on their expertise in a Building Engineering subject. You will develop your research, time management, presentation and written communication skills. The dissertation enables you to personally select, and complete an in-depth study on, a topic related to Building Engineering.
Additional Information	The dissertation enables students to personally select, and complete an in-depth study on, a topic related to Building Engineering. The module develops students' practical research skills and enhances their knowledge and expertise in Building Engineering. As the completion of a dissertation is principally student-led the module offers the opportunity to further develop time management, presentation and communication skills.In this module, the knowledge learning outcomes are K3, K5 and the skills learning outcomes are S1, S3 and S8.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Artefacts	Final dissertation report	90	0	MLO2, MLO3, MLO4, MLO5, MLO6
Presentation	Presentation of proposal	10	0	MLO1, MLO6

Module Contacts

Module Leader

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

Partner Module Team