

## Liverpool John Moores University

Title: BUILDING ENGINEERING RESEARCH METHODS  
Status: Definitive  
Code: **5223BEUG** (122827)  
Version Start Date: 01-08-2021

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

Team	Leader
Jeff Cullen	Y
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**Academic Level:** FHEQ5      **Credit Value:** 10      **Total Delivered Hours:** 30  
**Total Learning Hours:** 100      **Private Study:** 70

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	20
Tutorial	10

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	REPORT	100	

### Aims

*To understand the academic research process and the differing techniques, strategies and methods used to undertake engineering research in the built environment*

*To develop a research proposal that can be taken forward to the final year research project*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Appraise, compare and interpret key theories, concepts and methodological issues related to engineering research in the built environment.
- 2 Explain and relate the nature and purpose of each stage in the research process and be able to justify options.
- 3 Design and propose a research project on a specific area of study, including ethical consideration.

## Learning Outcomes of Assessments

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

REPORT	1	2	3
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## Outline Syllabus

- *Developing research questions, aims and objectives*
- *Engineering research design and theoretical approaches*
- *Engineering research strategies*
- *Engineering research methods*
- *Ethical principles in research*

## Learning Activities

Workshops, supported by nominated Supervisor

## Notes

The research methods module enables students to develop an engineering research proposal that could potentially be used for their final year research project. A supervisor will be nominated at the beginning of the module to work individually with each student.