

## Liverpool John Moores University

Title: RESEARCH METHODOLOGY  
Status: Definitive  
Code: **7001BEPG** (102410)  
Version Start Date: 01-08-2021

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

Team	Leader
Patryk Kot	Y

**Academic Level:** FHEQ7      **Credit Value:** 10      **Total Delivered Hours:** 22  
**Total Learning Hours:** 100      **Private Study:** 78

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	14
Seminar	8

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS2	Research proposal	50	
Report	AS1	Evaluation of published work	50	

### Aims

*To provide an understanding of the academic research process understanding the differing techniques, strategies and methods used to undertake research in the built environment.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Critically evaluate key theories, concepts and methodological issues related to research in Civil Engineering and/or Water, Energy and the Environment.
- 2 Critically evaluate relevant published research literature in terms of its methodology.
- 3 Evaluate the nature and purpose of each stage in the research process and be able to justify options related to the preparation of a post-graduate research study.
- 4 Design an experimental research proposal, with appropriate techniques for obtaining and analysing data and minimising errors.

### **Learning Outcomes of Assessments**

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

REPORT	1	3	4
REPORT	2		

### **Outline Syllabus**

*Overview of the research process focusing on research design and strategy.*  
*Formulation of a research question and specific area of study.*  
*Information sources and the purpose, nature and scope of literature reviewing.*  
*Data collection techniques used in quantitative and qualitative research.*  
*Process of data validation, inputting, and analysis.*  
*Interpretation, discussion and conclusions of research findings.*

### **Learning Activities**

Lectures and seminars.

### **Notes**

The module develops students' understanding of the research process as well as skills in research design, implementation and presentation in terms of the preparation and production of a post-graduate research study.