

## Liverpool John Moores University

Title: RESEARCH PROJECT  
Status: Definitive  
Code: **6505CIVSL** (123434)  
Version Start Date: 01-08-2021

Owning School/Faculty: Civil Engineering and Built Environment  
Teaching School/Faculty: ICBT, Colombo

Team	Leader
Patryk Kot	Y

**Academic Level:** FHEQ6  
**Credit Value:** 40  
**Total Delivered Hours:** 34  
**Total Learning Hours:** 400  
**Private Study:** 366

### Delivery Options

Course typically offered: Year Long & NS Year Long

Component	Contact Hours
Lecture	22
Tutorial	12

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	PROPOSAL	5	
Dissertation	AS3	DISSERTATION 8000 WORDS	85	
Presentation	AS2	PROGRESS PRESENTATION	10	

### Aims

*To enable students to complete a substantial piece of individual work and build on their expertise in their degree specialism.*

*To develop students research, time management, presentation and written communication skills.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Identify a research question, problem or hypothesis and establish aims and objectives to support the investigation.
- 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.
- 3 Develop and refine a research and data collection strategy appropriate to the research question / problem posed.
- 4 Source, collect, analyse and critically evaluate relevant and original qualitative and / or quantitative data.
- 5 Conduct an appropriate practical and/or laboratory programme to validate theoretical research, taking full account of ethical requirements.
- 6 Present the outcomes and methodology of your research

## Learning Outcomes of Assessments

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

PROPOSAL	1	2	3			
DISSERTATION 8000 WORDS	1	2	3	4	5	6
PROGRESS PRESENTATION	4	5	6			

## Outline Syllabus

### 1. 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 goal
- The structure and purpose of a dissertation

### 2. Research Approaches and Strategies

- The Inductive versus Deductive Approach
- Qualitative and Quantitative Research
- Data Collection Strategies
- Laboratory work
- The Knowledge Database. Effective Literature Searching and Literature Reviews

### 3. Data Collection and Analysis

- Data Collection Tools
- Qualitative and Quantitative Data Analysis
- Data Analysis tools

## Learning Activities

Individual study and investigation, supported by nominated Supervisor; lectures;

workshops.

## **Notes**

The dissertation enables students to personally select, and complete an in-depth study on, a topic related to their degree specialism. The module develops students' practical research skills and enhances their knowledge and expertise in their degree specialism. As the completion of a dissertation is principally student-led the module offers the opportunity to further develop time management, presentation and communication skills.