

# Engineering Project

## Module Information

2022.01, Approved

### Summary Information

Module Code	6505EEEEBHG
Formal Module Title	Engineering Project
Owning School	Engineering
Career	Undergraduate
Credits	30
Academic level	FHEQ Level 6
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
LJMU Partner Taught

### Partner Teaching Institution

Institution Name
Beaconhouse Group

### Learning Methods

Learning Method Type	Hours
Seminar	4
Tutorial	11

### Module Offering(s)

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

## Aims and Outcomes

Aims	The project aims to provide a supervised but student led learning activity in a relevant area of engineering or technology. It aims to develop the academic, technical and organisational skills required to undertake a substantial individual engineering project from specification to conclusion.
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**After completing the module the student should be able to:**

### Learning Outcomes

Code	Number	Description
MLO1	1	Conceptualise and plan a supervised but self-led project
MLO2	2	Carry out a self-managed programme of work according to good project management practices
MLO3	3	Research and analyse the established body of knowledge relevant to the project
MLO4	4	Demonstrate deep technical understanding of their project
MLO5	5	Communicate technical information clearly and concisely in written and oral forms
MLO6	6	Critically evaluate all aspects of a project and formulate justified conclusions

## Module Content

Outline Syllabus	Projects may involve experiment, analysis, design and/or computation and should allow a student to demonstrate achievement of the module learning outcomes.
Module Overview	
Additional Information	The project provides the opportunity to conduct a major supervised learning activity on a relevant engineering or technical topic. The project requires the student to demonstrate good project management, critical evaluation and presentation skills. In the context of the MEng/BEng Computer Technology analysis may include mathematical analysis and computer modelling. However, it is expected that a greater emphasis on programmes applications, embedded systems and communications will be included in an integrated system. All project work will have a complete analysis, mathematically based or otherwise. In the context of the MEng/BEng Electronic Engineering, a Project with a detailed design and analysis of an electronic circuit or function is appropriate. In the context of the MEng/BEng Electrical Power Engineering, a Project with a detailed design and analysis of a power electrical/electronic circuit or system is appropriate. For example, modelling of a AC Machine or Inverter. In the context of the MEng/BEng Control and Automation Engineering, a Project with a detailed design and analysis of a control system is appropriate. For example, modelling, simulation and testing of a PID control system. In the context of the MEng/BEng Electronics and Software Engineering, a Project with a detailed design and analysis of a software/hardware interface is appropriate. In the context of the MEng/BEng Electrical and Electronic Engineering, a Project with a detailed design and analysis of an electrical/electronic circuit or function is appropriate. For example, embedded electronics may be used to control a power circuits such as a controlled rectifier for a specific task.

## Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Essay	Interim Report	20	0	MLO1, MLO2, MLO3, MLO5

Dissertation	Final Report	50	0	MLO2, MLO3, MLO4, MLO5, MLO6
Essay	Presentation, Viva and Poster	30	0	MLO4, MLO5, MLO6

## Module Contacts

### Module Leader

Contact Name	Applies to all offerings	Offerings
Russell English	Yes	N/A

### Partner Module Team

Contact Name	Applies to all offerings	Offerings
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