

## Liverpool John Moores University

Title: Engineering Practice 2  
Status: Definitive  
Code: **5518ENGSBC** (120216)  
Version Start Date: 01-08-2018

Owning School/Faculty: Maritime and Mechanical Engineering  
Teaching School/Faculty: Maritime and Mechanical Engineering

Team	Leader
Allan Carrier	Y

**Academic Level:** FHEQ5  
**Credit Value:** 20  
**Total Delivered Hours:** 60  
**Total Learning Hours:** 200  
**Private Study:** 140

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	24
Practical	24
Tutorial	12

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Experimental Practice	50	
Portfolio	AS2	Professional Development	10	
Report	AS3	Literature Review	20	
Report	AS4	Project Plan	20	

### Aims

*To enable students to develop the skills required to practice as a professional engineer. This module provides a broad range of experiences with an emphasis upon the systematic thinking, planning and execution required of engineers in a modern professional environment.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Carry out a laboratory experiment, collect notes and data, and write a professional report
- 2 Demonstrate a commitment to conduct engineering activities in a professional manner
- 3 Research a topic, find relevant literature and produce a critical review
- 4 Demonstrate an awareness of the importance of management in the context of engineering projects. Apply principles of project management to the allocation of tasks and resources

## Learning Outcomes of Assessments

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

Experimental Practice	1
Professional Dev Silver Award	2
Literature Review	3
Project Plan	4

## Outline Syllabus

*The list below provides an indicative list of topics which may be covered in this module:*

### *Experimental Practice*

- *Complete a set of laboratory experiments*
- *Observation, measurement and recording of experimental results*
- *Data Handling*
- *Presenting and reporting of results*

### *Professional Development*

- *Organisational Awareness (based on LJMU WOW Silver Award)*
- *Health & Safety*
- *Ethics*
- *Institutional Code of Conduct*

### *Research Methods*

- *Research & Library Skills*
- *Report Writing*
- *Critical Thinking*

### *Engineering Management*

- *Project Planning*
- *Project Management*

### **Learning Activities**

Laboratory experiments, tutorials, online tests

### **Notes**

The professional development portion of the module is assessed on a pass/fail basis. Students must complete the assessment exercises to a satisfactory standard in order to achieve a pass grade in this module.