

Liverpool John Moores University

Title: Engineering Practice 1
Status: Definitive
Code: **4110MSE** (120709)
Version Start Date: 01-08-2016

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

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 24
Total Learning Hours: 200 **Private Study:** 176

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	6
Practical	12
Tutorial	6

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Portfolio	AS1	Work based project	40	
Portfolio	AS2	Laboratory Logbook	25	
Report	AS3	Formal Laboratory Report	25	
Self Awareness Statement	AS4	Bronze WoW Award	10	

Aims

This module aims to introduce students to a range of standard engineering practices.

Learning Outcomes

After completing the module the student should be able to:

- 1 Demonstrate a commitment to Health and Safety and ethical responsibility.
- 2 Demonstrate their commitment to undertake the on-going personal development required to become a professional engineer.
- 3 Carry out an experimental procedure in a range of different engineering disciplines.
- 4 Process data collected during an experiment, and produce a formal written report with conclusions.

Learning Outcomes of Assessments

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

Work based project	1
Laboratory Logbook	3
Formal Laboratory Report	4
Bronze WoW Award	2

Outline Syllabus

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

- *Work based project based upon Health and Safety in the workplace and the ethical values and responsibilities of their company.*

Personal Development

- *World of Work: Bronze Award*
- *Environmental & ethical responsibilities*
- *Health & safety*
- *Team working*
- *Introduction to research skills*
- *Professional body requirements*

Experimental Methods

- *Report writing*

- *Handling experimental data*
- *Graphical representation*
- *Errors*
- *Analysis of results, and the formulation of conclusions*

Experimental Practice

- *Complete a series of experiments, keeping a logbook to record notes, measurements and observations.*

Learning Activities

Laboratory experiments, tutorials, online tests

Notes

The personal 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.