Liverpool John Moores University

Title:	Engineering Practice 1
Status:	Definitive
Code:	**4106MAN** (122208)
Version Start Date:	01-08-2022
Owning School/Faculty:	Engineering
Teaching School/Faculty:	Engineering

Team	Leader
Russell English	Y
Jack Mullett	
James Ren	

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

Delivery Options
Course typically offered: Semester 2

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	
Future Focus e-learning task	AS4	Self Awareness Statement	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	2
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 personal, ethical values and responsibilities of the student in addition to those 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.

In this module, the skills learning outcomes are S1 and the behaviours learning outcomes are B1, B2, B7 and B13.