Liverpool John Moores University

Title: Engineering Practice 2
Status: Definitive
Code: **5114MSE**   (120720)
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:**	24
Total Learning Hours:	200	**Private Study:**	176		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	12
Practical	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   2
Award
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
• World of Work: 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.