

## Liverpool John Moores University

Title: Group Design Project  
Status: Definitive  
Code: **7116ENG** (120100)  
Version Start Date: 01-08-2019

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

Team	Leader
Marco Messina	Y
Rob Darlington	
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**Academic Level:** FHEQ7      **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
Tutorial	24

**Grading Basis:** 50 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Design Proposal and Project Plan	20	
Report	AS2	Written and Oral Presentation of Solution	80	

### Aims

*This module aims to build upon the Level 6 Mechanical Engineering Design module, by providing an authentic design project in conjunction with an internal or external client group or company (typically a research group or local industry). It will require students to demonstrate substantial independent initiative, working with the client to develop and communicate a design specification and project plan. The participants*

*will select appropriate engineering and design processes and techniques to solve the problem.*

## **Learning Outcomes**

After completing the module the student should be able to:

- 1 Work with a client to establish a set of requirements and specifications
- 2 Actively manage the design process, while monitoring and reporting progress to a client
- 3 Communicate design information and data effectively with a client
- 4 Determine appropriate analytical approaches and apply them to the design of a solution which meets the client requirements
- 5 Demonstrate professional interpersonal skills with both a client and a design team
- 6 Identify relevant standards and apply them to the design process and validate designs to ensure compliance

## **Learning Outcomes of Assessments**

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

Design Proposal & Project Plan	1					
Written & Oral Presentation	2	3	4	5	6	

## **Outline Syllabus**

*Establishing project requirements in conjunction with an external or internal client*

*Project planning and control to ensure an efficient, timely and effective outcome which meets client expectations*

*Design delivery and execution of a technical design project, according to a plan*

*Presentation of design solutions in a concise and professional way to an audience including the client, peers and academic staff*

## **Learning Activities**

This module will be student centred and led, but will be supported by tutorial sessions with an academic advisor.

## **Notes**

The project provides the opportunity to conduct a major learning activity on a relevant engineering or technical topic. The project requires the student group to demonstrate good project management, engineering skills application, critical

evaluation and presentational skills in a team working environment.