

## Liverpool John Moores University

Title: Group Project  
Status: Definitive  
Code: **5010ELE** (120120)  
Version Start Date: 01-08-2016

Owning School/Faculty: Electronics and Electrical Engineering  
Teaching School/Faculty: Electronics and Electrical Engineering

Team	Leader
Rebecca Bartlett	Y
Clifford Mayhew	

**Academic Level:** FHEQ5      **Credit Value:** 20      **Total Delivered Hours:** 72  
**Total Learning Hours:** 200      **Private Study:** 128

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Practical	48
Tutorial	24

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Proposal	10	
Artefacts	AS3	Product	40	
Report	AS2	Main Report	40	
Presentation	AS4	Presentation	10	

### Aims

*To develop the students ability to work in a team through the open ended nature of design.*

*To develop a focus on a physical deliverable which integrates learning from levels four and five, and applies a real world example for basing enterprise.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Produce a new product proposal and project management plan
- 2 Appraise and apply appropriate and relevant engineering knowledge to create a proof of concept.
- 3 Produce a reliable and robust design
- 4 Communicate technical information using written, oral and visual techniques

## Learning Outcomes of Assessments

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

Proposal	1
Product	2
Main Report	3
Presentation	4

## Outline Syllabus

*Reverse Engineering*  
*New product innovation techniques.*

*Patent searching*

*Conceptual design*  
*Value Engineering*

*Group working skills*  
*Presentation skills*

## Learning Activities

Seminars and practical laboratory based work.

## Notes

To develop the students ability to work in a team through the open ended nature of design.

This module is conducted within the two dedicated design weeks of the school. It acts as the focal point to the level 5 'Enterprise' module providing the product around which the group work evolves.