Liverpool John Moores University

Title: ENGINEERING SOLUTIONS
Status: Definitive
Code: **3008ENGPT** (119542)
Version Start Date: 01-08-2016

Owning School/Faculty: General Engineering Research Institute
Teaching School/Faculty: General Engineering Research Institute

Team	Leader
Frederic Bezombes	Y

Academic Level:	FHEQ3	**Credit Value:**	12	**Total Delivered Hours:**	34
Total Learning Hours:	120	**Private Study:**	86		

Delivery Options
Course typically offered: Semester 1

Component	Contact Hours
Lecture	4
Practical	30

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Artefacts	AS1	Coursework 1: solid works drawing	20	
Report	AS2	Coursework 2: design project	20	
Presentation	AS3	Coursework 3: group presentation using VA software	60	

Aims

To enable students to develop the concepts and skills necessary to be effective learners and to gain an appreciation of what being an engineer means in contemporary society

Learning Outcomes

After completing the module the student should be able to:

1   Use specialised design software.
2   Work effectively in a group
3   Design and build a model from a design brief
4   Make a short presentation using visual aids software.

Learning Outcomes of Assessments

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

solid works drawing   1

project proposal   2   3

group presentation   4

Outline Syllabus

Basic use of Solid Works.
Design principles.
Design project management
Design and build model incorporating Mechanical and Electrical principles.

Learning Activities

Mainly group practical work, with lectures to introduce specialised software and the concepts of design principles and design project management.

Notes

This module is designed to enable students to develop the concepts and skills necessary to be effective learners and to gain an appreciation of what being an engineer means in contemporary society. This is done through a group design and build project.