

## Liverpool John Moores University

Title: ENGINEERING PROJECT  
Status: Definitive  
Code: **6502ENGIOM** (107416)  
Version Start Date: 01-08-2011

Owning School/Faculty: Engineering  
Teaching School/Faculty: Isle of Man College

Team	Leader
Gary Colquhoun	Y

**Academic Level:** FHEQ6  
**Credit Value:** 36.00  
**Total Delivered Hours:** 4.00  
**Total Learning Hours:** 360  
**Private Study:** 356

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	4.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	submission of a project proposal and detailed Gantt chart	5.0	
Essay	AS2	interim report	15.0	
Essay	AS3	final report (approx. 15,000 words)	60.0	
Essay	AS4	viva examination and poster	10.0	
Essay	AS5	logbook	10.0	

### Aims

*The project provides a single, integrative supervised activity on an industrially based engineering topic relevant to the named award. It aims to promote invention and creativity, to develop the ability to work as an individual, to enhance research and problem solving skills, to develop intellectual and practical skills, to manage projects effectively, to write technical reports and present aspects of the work orally to the*

peer group.

## Learning Outcomes

After completing the module the student should be able to:

- 1 demonstrate the project management skills necessary to manage a complex programme of work effectively
- 2 critically analyse the established body of knowledge relevant to the project
- 3 critically evaluate all aspects of a project and formulate justifiable conclusions
- 4 present technical information clearly in oral form and in substantial written reports

## Learning Outcomes of Assessments

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

CW	1	4		
CW	2	4		
CW	1	2	3	4
CW	3			
CW	1	4		

## Outline Syllabus

*Typical projects will involve improving (or proposing an improvement to) a process, system or product with the aim(s) of enhancing product quality, reducing cycle time and costs (improving efficiency). Projects can be experimental, analytical, design, computational or management exercises but must be industrially based and on a topic associated to the engineering theme of the students named award. The project duration is typically around 44 weeks.*

## Learning Activities

Project work. A series of supporting lectures at the commencement of the project.

## References

<b>Course Material</b>	Book
<b>Author</b>	Davies, J.W.
<b>Publishing Year</b>	2001
<b>Title</b>	Communication skills: a guide for engineering and applied science students

<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Prentice Hall
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Nicholas
<b>Publishing Year</b>	1990
<b>Title</b>	Managing business and engineering projects
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Prentice-Hall
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Scott, B.
<b>Publishing Year</b>	1998
<b>Title</b>	Communication for Professional Engineers
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Telford
<b>ISBN</b>	

<b>Course Material</b>	Book
<b>Author</b>	Ellis, R
<b>Publishing Year</b>	2000
<b>Title</b>	Communication for Engineers
<b>Subtitle</b>	
<b>Edition</b>	
<b>Publisher</b>	Arnold
<b>ISBN</b>	034067718

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## Notes

The engineering project is a single integrative supervised activity on a relevant engineering topic associated with the students named award. It requires the student to use and develop project management skills, develops research and problem solving skills, technical report writing and oral presentational skills.