

## Liverpool John Moores University

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Title: Management for Engineers  
Status: Definitive  
Code: **5103ENG** (117642)  
Version Start Date: 01-08-2018

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

| Team             | Leader |
|------------------|--------|
| John Skiffington | Y      |

**Academic Level:** FHEQ5      **Credit Value:** 10      **Total Delivered Hours:** 43  
**Total Learning Hours:** 100      **Private Study:** 57

### Delivery Options

Course typically offered: Standard Year Long

| Component | Contact Hours |
|-----------|---------------|
| Lecture   | 40            |

**Grading Basis:** 40 %

### Assessment Details

| Category | Short Description | Description | Weighting (%) | Exam Duration |
|----------|-------------------|-------------|---------------|---------------|
| Exam     | Exam              |             | 100           | 3             |

### Aims

*To enable students to develop the basic management skills and awareness required of an engineering graduate.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Develop a project plan.
- 2 Identify business functions, types of business and the activities of engineering organisations.
- 3 Describe organizational structures and identify functions within business and the interface between commercial and engineering functions
- 4 Identify cost factors that influence decisions and use break-even analysis
- 5 Identify and use production control systems
- 6 Explain and use forecasting techniques.

## Learning Outcomes of Assessments

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

|             |   |   |   |   |   |   |
|-------------|---|---|---|---|---|---|
| Examination | 1 | 2 | 3 | 4 | 5 | 6 |
|-------------|---|---|---|---|---|---|

## Outline Syllabus

### *Organisational Factors*

*Understanding engineering organisations and their functions. Organisational structures. Business functions and their communication interfaces.*

*Introduction to Project Management.*

*Monitoring and controlling a basic project*

*Cost, volume, profit analysis, budgets and budgetary control, Investment Appraisal,*

### *Production Control*

*Economic order / batch quantity. Just in time and lean methodology. Inspection methods and statistical control. Environmental control. Risk assessment.*

### *Forecasting*

*Uses of Forecasting. Data gathering and simple forecasting techniques.*

## Learning Activities

This module will be delivered by lectures and supporting tutorials where video case studies will be watched and class discussions and debates encouraged.

## Notes

This is to be a lecture driven module with use of appropriate videos and case studies. The module will be assessed through two courseworks covering the learning outcomes.