

## Liverpool John Moores University

Title: OPERATIONS AND MANAGEMENT PRINCIPLES  
Status: Definitive  
Code: **6523ENGIOM** (117264)  
Version Start Date: 01-08-2016

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

Team	Leader
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**Academic Level:** FHEQ6      **Credit Value:** 20      **Total Delivered Hours:** 50  
**Total Learning Hours:** 200      **Private Study:** 150

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	36
Tutorial	12

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam		50	2
Essay	Essay		25	
Essay	Essay		25	

### Aims

*To develop an understanding of modern manufacturing planning and organisation in the context of Global manufacturing. To understand the pivotal role of managers as knowledge workers in planning and controlling organisations.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Use the principles of control of resources in a modern manufacturing organization
- 2 Apply the planning and control of information, data and resources in the efficient execution of manufacturing.
- 3 Critically review the characteristics of a manufacturing company in terms of manufacturing organization in the wider external environment
- 4 Apply ideas from current issues in management, including ethics and corporate responsibility
- 5 Apply decision making tools in service and manufacturing companies.
- 6 Recognise different managerial problem settings and make appropriate responses

## Learning Outcomes of Assessments

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

Exam	1	2	4	5
Essay 1	3			
Essay 2	6			

## Outline Syllabus

*Demand management: forecasting, patterns of demand; qualitative and quantitative methods.*

*Operations planning: Aggregate Production Planning, Master production scheduling, Materials requirements planning.*

*Inventory management: ABC analysis, EOQ modelling, Application of EOQ.*

*Modern operations management: ERP, MRPII and Lean/Agile manufacturing.*

*Managing people in a changing environment; theories of motivation, delegation, conflict management., leadership.*

*Managers' social ethical and legal responsibilities; family friendly policies, corporate social responsibility, employment law*

*Decision making: scarce resources, impact of PESTL factors*

*Management of resources: budgetary planning and control, quality issues*

## Learning Activities

This module is taught through a combination of lectures, tutorial, small group work, video case studies and workshops, use of relevant software where appropriate

## Notes

The module deals with modern, world class service and manufacturing principles.

The work explores: The relationship between manufacturing data and organisation in terms of planning, scheduling and cost, lean/agile manufacturing, and modern management principles in world class organisations.