

Liverpool John Moores University

Title: OPERATIONS AND PROCESS MANAGEMENT
Status: Definitive
Code: **5061TECH** (105153)
Version Start Date: 01-08-2011

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Gary Colquhoun	Y

Academic Level: FHEQ5
Credit Value: 12.00
Total Delivered Hours: 26.00
Total Learning Hours: 120
Private Study: 94

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	12.000
Practical	10.000
Tutorial	4.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Coursework 1 Case Study Report	40.0	
Essay	AS2	Coursework 2 Computer based simulation case study	60.0	

Aims

To develop an understanding of the principles of operations and process management in a modern manufacturing and service industry context.

Learning Outcomes

After completing the module the student should be able to:

- 1 Recall and discuss the resources and processes in a manufacturing or service organization.
- 2 Recall and discuss the basic techniques for the management and control of information and data and their application in the planning and execution of operations.
- 3 To review appropriately the characteristics of a company in terms of processes and organization.

Learning Outcomes of Assessments

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

CW	3	
CW	1	2

Outline Syllabus

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

Inventory management, costs, batch-sizes, inventory systems.

Scheduling: ERP, MRP II and Materials requirements planning.

Lean manufacturing, just-in-time - the culture and implementation.

Process modelling in manufacturing and service industries, Computer based simulation methods and applications.

Learning Activities

Lectures, tutorials and Computer-based laboratories

References

Course Material	Book
Author	S.Brown et al
Publishing Year	2001
Title	Operations Management
Subtitle	
Edition	
Publisher	Butterworth Heinemann
ISBN	

Course Material	Book
Author	Chase, R.B., Jacobs, F.R., and Aquilano, N.J
Publishing Year	2003

Title	Operations management for competitive advantage
Subtitle	
Edition	
Publisher	McGraw Hill
ISBN	

Course Material	Book
Author	S.Brown et al.,
Publishing Year	2005
Title	Strategic Operations Management
Subtitle	
Edition	
Publisher	Butterworth Heinemann.
ISBN	

Notes

The module deals with modern, world class principles in the manufacturing and service industry. The students work explores: The relationship between manufacturing information, inventory and organisation in terms of operations and processes, scheduling and cost.