## **Liverpool** John Moores University

Title: Manufacturing Management

Status: Definitive

Code: **7111MSE** (120733)

Version Start Date: 01-08-2018

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

Team	Leader
Jun Ren	Υ
Rob Darlington	

Academic Credit Total

Level: FHEQ7 Value: 10 Delivered 20

80

Hours:

Total Private Learning 100 Study:

Hours:

**Delivery Options** 

Course typically offered: Semester 2

Component	Contact Hours	
Lecture	12	
Tutorial	6	

**Grading Basis:** 50 %

#### **Assessment Details**

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS2	Examination	70	2
Report	AS1	Coursework Assignment	30	

#### **Aims**

This module provides an introduction to manufacturing operations management. It focuses on the manufacturing plant and services covering the fundamentals of production planning, inventory control, and process modelling and control.

#### **Learning Outcomes**

After completing the module the student should be able to:

- 1 Explain current practice in purchasing, inventory management, manufacturing planning and distribution control, and customer service
- 2 Apply key production planning methods in current use in manufacturing
- 3 Apply fundamental quality control methods

## **Learning Outcomes of Assessments**

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

Examination 1 2 3

Coursework assignment 2

# **Outline Syllabus**

Demand management & forecasting. Material control. Electronic interfaces and scheduling tools.

Manufacturing environment types and relationship to planning systems. Definition and scope of planning. Master production scheduling: the master scheduling process, rough-cut capacity planning fences, final assembly scheduling. Operations planning: Bill of Material structure and design, ERP, MRPII and Materials requirements planning, scheduling and inventory control. Impact of software.

Inventory management systems, Economic Order Quantity (EOQ) modelling.

Information flow and modelling, and applications to manufacturing operations.

#### **Learning Activities**

Lectures, tutorial and practicals

#### **Notes**

The module investigates manufacturing management techniques including many of the requirements of a modern industrial based manufacturing centre