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Title: Supply Chain Modelling
Status: Definitive
Code: **7017MSC** (121687)
Version Start Date: 01-08-2018

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

Team	Leader
Jun Ren	Y
Charles Roberts	

Academic Level: FHEQ7 **Credit Value:** 10 **Total Delivered Hours:** 17
Total Learning Hours: 100 **Private Study:** 83

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	11
Tutorial	6

Grading Basis: 50 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	Written coursework containing qualitative and quantitative elements	100	

Aims

To equip students to use a variety of quantitative methods to analyse and solve problems in logistics

Learning Outcomes

After completing the module the student should be able to:

- 1 Show a critical awareness of the quantitative tools available for logistics planning
- 2 Synthesise models to support decision making and operations throughout the supply chain
- 3 Systematically evaluate the role of KPIs in logistics management
- 4 Critically analyse supply chain planning and control issues

Learning Outcomes of Assessments

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

Report	1	2	3	4
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Outline Syllabus

Logistics modelling

Materials management, MRP, fulfilment

Stockholding, order picking and replenishment

Demand forecasting and impact on the whole supply chain

Analysing time and inventory

Cost analysis

Cost and performance monitoring

Learning Activities

A programme of lectures supported by tutorials

Notes

Through the use of appropriate modelling techniques, this module evaluates supply chain operations in a quantitative way in order to allow for optimisation of performance.