

Liverpool John Moores University

Title: LOGISTICS AND SUPPLY CHAIN MANAGEMENT
Status: Definitive
Code: **7017MAR** (115913)
Version Start Date: 01-08-2016

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

Team	Leader
Jun Ren	Y

Academic Level: FHEQ7
Credit Value: 10
Total Delivered Hours: 38
Total Learning Hours: 100
Private Study: 62

Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	24
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	70	2
Essay	AS2	Industrial Case Study	30	

Aims

This module covers the principal elements of logistics: purchasing, materials control, manufacturing planning, distribution and the relationships between them. The aim is to develop students appreciation of the workings of a supply chain with particular focus on customer service, together with an appreciation of the impact of e-business technology and how this has redefined supplier-buyer relationships.

Learning Outcomes

After completing the module the student should be able to:

- 1 Explain the elements of logistics, their mutual interaction with other important elements of business activity.
- 2 Demonstrate knowledge of analytical and management techniques.
- 3 Discuss current industry thinking in purchasing, inventory management, manufacturing planning and distribution, and customer service, and identify how they integrate within the wider supply chain.
- 4 Critically evaluate current developments in the supply chain concept and identify the effects of these developments on business interaction.

Learning Outcomes of Assessments

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

EXAM	1	2	3	4
CW	1	3		

Outline Syllabus

OVERVIEW & DEFINITIONS

Merging of previously separate disciplines. Definitions of Logistics and supply Chain Planning. Relationships. Impact of customer service; The last competitive frontier Advent of software systems. Concept of e-business (B2B), etc

INPUTS

Purchasing. demand management & forecasting. Material control. supplier relationships: the changing nature. The electronic interfaces

OPERATIONS

Manufacturing environment types and relationship to planning systems. Definition and scope of planning. The planning process. Historical perspectives, development of approaches through MRP, MRPII, ERP, OPT, impact and relevance of JIT, newer approaches such as APS, etc. Understanding the commercial trade-offs. Impact of software.

OUTPUTS

Stocks vs service vs delivery frequency vs cost. Warehouse siting. Distribution Channels. Transport mode. Economics of transport and distribution. International factors affecting the equation. JIT and Quick Response Logistics. Logistics information systems

INTERFACE TOPICS

Customer Service. Customer Relationship Management. Trend towards globalisation of supply chain. Trade-offs across the logistics function

Learning Activities

The module will be over one semester through of lectures, tutorials and case studies. Teaching methods used will include case studies (in groups) with presentations, exercises, lectures by guest speakers, use of relevant software (WITNESS).

Notes

The module is designed to raise the awareness of the various business processes involved in the acceptance and conversion through to delivery of a customer order. Thus purchasing, inventory control, manufacturing planning, distribution are all covered to the extent of exposure to the main characteristics, and especially the integration issues. Given that the conversion of a customer order is the lifeblood of any business, the topic of customer service is discussed at some length, and the relationship with the components of logistics that together deliver this service, is also covered in some detail.