

Liverpool John Moores University

Title: MARITIME TRANSPORT SYSTEMS
Status: Definitive
Code: **7002MAR** (106096)
Version Start Date: 01-08-2016

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

Team	Leader
Steve Bonsall	Y

Academic Level: FHEQ7
Credit Value: 20
Total Delivered Hours: 51
Total Learning Hours: 200
Private Study: 149

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Tutorial	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	70	3
Essay	AS2	Essay - A Numerical Example & Debate	30	

Aims

To develop a student's ability to formulate and analyse economic and managerial problems associated with maritime transport systems.

Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate solutions to problems with maritime transport systems using discrete simulation and queuing theory.
- 2 Critically appraise the operation of a maritime transport system.
- 3 Elucidate the features of a maritime transport system for the carriage of particular cargoes
- 4 Evolve solutions to the managerial problems associated with maritime transport systems

Learning Outcomes of Assessments

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

EXAM	1	2	3	4
CW	1	2	3	

Outline Syllabus

Marine vehicle operation and management:

Analysis of major types of ships operating in the bulk and general cargo trades.

The relationship between port operations/ship design and the market.

Port/terminal operation and management:

Layout and Operation of Port terminals

Type and use of Port Cargo handling Equipment for different cargoes and terminals

Simulation of port operations

International trade and through transport:

Volumes of cargo moving in world seaborne trade together with a breakdown into its major components.

Operational research methods applied to system modelling in shipping operations and through transport including case studies.

Learning Activities

By a combination of lectures and tutorials.

Notes

The module seeks to analyse the various maritime transport systems available and to assess their importance within the global maritime transport market. Solutions to managerial problems are examined using when necessary analytical and computer based methods.