

Liverpool John Moores University

Title: Multimodal Transport and Global Logistics
Status: Definitive
Code: **6026MAR** (116864)
Version Start Date: 01-08-2019

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

Team	Leader
Dimitrios Paraskevadakis	Y

Academic Level: FHEQ6 **Credit Value:** 24 **Total Delivered Hours:** 75
Total Learning Hours: 240 **Private Study:** 165

Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	36
Tutorial	36

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Examination	60	3
Report	Report 1	Report 1	20	
Report	Report 2	Report 2	20	

Aims

To study the concept and practice of intermodal freight transport from the viewpoints of operators, shippers and governments, and to examine the structure of intermodal operations as an integral part of a logistics system.

Learning Outcomes

After completing the module the student should be able to:

- 1 Show an understanding of the operation of the various forms of intermodal freight transport in relation to supporting transport and logistics systems
- 2 Analyse the effectiveness of each of the intermodal techniques from a variety of different perspectives.
- 3 Examine the range of standards, regulations and codes of practice with which the industry must comply
- 4 Exhibit an appreciation of government policy towards the intermodal freight market
- 5 Analyse the effective and efficient operation of intermodal freight terminals
- 6 Appraise the effectiveness of a range of case studies in the field of intermodal freight transport

Learning Outcomes of Assessments

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

Examination	1	2	4	5
Report 1	3			
Report 2	6			

Outline Syllabus

Conceptual analysis of intermodal transport and logistics systems. Identification of different forms of intermodal transport, and their advantages and disadvantages from the perspectives of operators, shippers and governments. Linkage with the elements of logistics systems Organisation and management of intermodal freight systems. The landbridge concept.

Road and rail transport: an overview of legislation and operating practices which impact on intermodal freight transport systems. Terminal design for efficient intermodal operation.

International standards and the pressures for change. Regulation and deregulation. Competition issues.

Government involvement in intermodal transport policy. Roles of subsidy and operational legislation relaxation

Legislation and codes of practice. Short-sea ferry crossings, with particular reference to the 'Motorways of the Sea' concept. Terminal design and operation for efficient practice.

Case studies in intermodal freight transport. Commercial planning of intermodal freight systems. Integrating intermodal freight into existing operations. Double stack container operations. Dedicated intermodal corridors.

Learning Activities

Lectures and tutorials.

Notes

A study of the operation of intermodal freight transport systems, looking at the variety of technologies currently in use and their contribution to the logistics market. The module also examines operators', shippers' and government views on the effectiveness of intermodal through transport systems through a range of relevant case studies. Government policy and regulation are also considered.