

## Liverpool John Moores University

Title: Introduction to Port Studies  
Status: Definitive  
Code: **4101MAR** (121806)  
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering  
Teaching School/Faculty: Engineering

Team	Leader
Chia-Hsun Chang	Y

**Academic Level:** FHEQ4      **Credit Value:** 10      **Total Delivered Hours:** 25  
**Total Learning Hours:** 100      **Private Study:** 75

### Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	16.5
Off Site	6
Tutorial	2.5

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	AS1	2000 Words	100	

### Aims

*To introduce students to the roles, functions, features and operations of ports*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Recognise the economic and logistics roles of ports
- 2 Identify the various types of port facilities and services, and distinguish between terminal operational systems
- 3 Discuss the key factors influencing the design of a port terminal

### **Learning Outcomes of Assessments**

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

Report	1	2	3
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### **Outline Syllabus**

*Economic and logistics roles of ports – ports as facilitators of international trade; ports as national and regional economic drivers; ports as logistic chain providers*  
*Global port industry –categorisation of ports; global port geography and competition in the industry; global terminal operators; port customers and other interested parties; contemporary issues in the port industry*  
*Port functions – services and facilities – harbour and shore-side services to vessels; cargo handling, storage and receipt / delivery functions; infrastructure and superstructure provision; landlord functions and related activities*  
*Terminal Logistics – throughput, capacity and area calculations; cargo handling systems and requirement estimations; berth configurations; layout of storage facilities and other superstructure; vehicle, equipment and people flows; hinterland connections*

### **Learning Activities**

Integrated series of formal lectures and tutorials

### **Notes**

An introductory module looking at the operation of ports.