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Title: MARITIME AND PORT OPERATIONS  
Status: Definitive but changes made  
Code: **4038MAR** (116898)  
Version Start Date: 01-08-2016

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

Team	Leader
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**Academic Level:** FHEQ4      **Credit Value:** 24      **Total Delivered Hours:** 72  
**Total Learning Hours:** 240      **Private Study:** 168

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	48
Tutorial	24

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	Essay		40	
Report	Rpt		30	
Report	Rpt		30	

### Aims

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

## Learning Outcomes

After completing the module the student should be able to:

- 1 Appreciate the structure of the international maritime industry and the roles of ports and ships as facilitators of maritime trade
- 2 Show understanding of the design characteristics of ships for different purposes
- 3 Demonstrate an awareness of the factors affecting management and operation of ships
- 4 Identify the various types of port facilities and services, and distinguish between terminal operational systems
- 5 Appreciate the key design and facilities layout issues affecting a port terminal

## Learning Outcomes of Assessments

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

Essay	1	
Report 1	2	3
Report 2	4	5

## Outline Syllabus

*The maritime industry: shipping, ports and associated organisations. Regulatory bodies and industry organisations. Ship registration and flags of convenience. Shipping company management. Shipboard management, organisation and crewing. Introduction to legal and regulatory framework. Ship types. Characteristic design features and relevance to cargoes. Basic elements of ship design, layout and propulsion. Bridge equipment and systems. Cargo types. Stowage and handling characteristics. Safety issues. Unitisation, mechanisation and standardisation. Ports: stakeholders, port types, services, ownership types. Developments and location of ports, hinterland, connections. Harbour operations; layout, systems and equipment of passenger, bulk, RoRo and container terminals; resource planning; operational performance.*

## Learning Activities

Lectures, class tests, design project, port tour, visit to ship simulator

## Notes

This module is designed to equip students with the underpinning knowledge for studies in port and ship operations and provides opportunity to demonstrate a range

of graduate skills by solving maritime industry problems. It will include external visits to maritime industry sites.