Liverpool John Moores University

Title:	Shipboard Operations
Status:	Definitive
Code:	**5012NAU** (119090)
Version Start Date:	01-08-2016
Owning School/Faculty:	Maritime and Mechanical Engineering
Teaching School/Faculty:	Maritime and Mechanical Engineering

Team	Leader
Ewan Kirkbride	Y
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Academic Level:	FHEQ5	**Credit Value:**	24	**Total Delivered Hours:**	100
Total Learning Hours:	240	**Private Study:**	140		

Delivery Options
Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	72
Tutorial	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam 1	Stability Examination	40	2
Exam	Exam 2	Cargo Examination	35	2
Report	Report	Loading case study	25	

Aims

To assess the operational practices required for the efficient and safe movement of cargoes on ships.

Learning Outcomes

After completing the module the student should be able to:

1 Demonstrate knowledge of the theories and factors affecting stability and trim, at moderate and large angles of heel, as applicable to merchant ship management.
2 Asses the factors affecting trim, stability and stress.
3 Explain the processes, procedures, preparations (and appreciate the regulatory framework) involved in the planning of the safe stowage, securing and carriage of dry cargoes, stores and equipment as well as the planning and operational procedures for safe passenger operations.
4 Explain the handling of oil, liquid and gas cargoes and their operating procedures and the regulatory framework surrounding them.

Learning Outcomes of Assessments

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

Examination 1	1	2	
Examination 2	3	4	
Report	2	3	4

Outline Syllabus

Structural requirements for vessels with respect to the handling and carriage of cargo.
Stability/stress diagrams and stress calculating equipment.
Planning and operational procedures for the stowage and securing of dry cargoes, stores and equipment.
Planning and operational procedures for handling oil, liquid and gas cargoes.
Planning and operational procedures for passenger operations.
Theories and factors affecting stability and trim.
Factors affecting stability at moderate and large angles of heel.
The effect of damage and flooding on stability
Current national and IMO regulations concerning stability.

Learning Activities

Classroom based lectures and tutorials including the use of appropriate software based programmes where possible.

Notes

This module contributes to the knowledge required for a professional qualification for the Merchant Navy.