Liverpool John Moores University

Title:	Shipboard Operations 2
Status:	Definitive
Code:	**5503BFC** (117432)
Version Start Date:	01-08-2019
Owning School/Faculty:	Maritime and Mechanical Engineering
Teaching School/Faculty:	Maritime and Mechanical Engineering

Team	Leader
Barbara Kelly	Y

Academic Level:	FHEQ5	**Credit Value:**	24	**Total Delivered Hours:**	122
Total Learning Hours:	240	**Private Study:**	118		

Delivery Options
Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	92
Tutorial	24

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam 1		40	2
Exam	Exam 2		50	4
Essay	Essay		10	

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 Plan the safe loading, stowing and securing of cargoes and their care during carriage.
2 Asses the factors affecting trim, stability and stress.
3 Demonstrate an understanding of the maintenance of vessels.

Learning Outcomes of Assessments

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

Examination 1	1
Examination 2	2
Essay	3

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.
The range and application of materials and processes.
Properties and safe use of maintenance equipment and materials.
Procedures for dry-docking.
Preparation required for surveys.

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 to gain a degree in Nautical Science and professional qualification for the Merchant Navy.