Liverpool John Moores University

Title:	Ocean Navigati	on and Navigational Equipment
Status:	Definitive	
Code:	5504ALAM	(120669)
Version Start Date:	01-08-2015	
Owning School/Faculty: Teaching School/Faculty:	Engineering Malaysian Ma	aritime Academy

Team	Leader
Barbara Kelly	

Academic Level:	FHEQ5	Credit Value:	24.00	Total Delivered Hours:	96.50
Total Learning Hours:	240	Private Study:	143		

Delivery Options

Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	70.000
Tutorial	24.000

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam		70.0	2.50
Test	Test		30.0	1.00

Aims

The module will enable the student to develop the techniques of ocean navigation and to understand the functioning of navigational equipment.

Learning Outcomes

After completing the module the student should be able to:

- LO 1 Solve navigational problems.
- LO 2 Assess the function of compasses and navigational equipment on board ships.

Learning Outcomes of Assessments

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

Exam	LO 1	LO 2
Test	LO 1	

Outline Syllabus

Celestial Navigation and Sailings. Integrated Navigation Systems (INS) and Integrated Bridge Systems (IBS) Voyage Data Recorder (VDR) and Simplified Voy. Data Recorder S-VDR Bridge Navigational Watch Alarm System (BNWAS) Parts and Function of Magnetic Compass Permanent & Induced Magnetism and Coefficients Heeling Errors and Constants Magnetic Compass Error and Correction Principles of Gyro Compass Gyro Compass Errors and Corrections Systems Under the Control of the Master Gyro and the Operation and Care of the Main Types of Gyro Compasses

Learning Activities

Lectures, tutorials and practical demonstrations.

Notes

This module will provide navigational skills required to manage the ocean passage of a vessel. It is intended to be studied by students following an approved STCW95 training programme who have spent some time on the bridge of a ship.