

Liverpool John Moores University

Title: BRIDGE MANAGEMENT
Status: Definitive
Code: **5025MAR** (105597)
Version Start Date: 01-08-2016

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

Team	Leader
Farhan Saeed	Y

Academic Level: FHEQ5
Credit Value: 12
Total Delivered Hours: 62
Total Learning Hours: 120
Private Study: 58

Delivery Options

Course typically offered: Runs Twice - S1 & S2

Component	Contact Hours
Lecture	46
Seminar	2
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	50	2
Essay	AS2	Report 2000 words	50	

Aims

This module should enable students to demonstrate theory and application of how to

- (i) To manoeuvre the ship.*
- (ii) To manage the Navigation of the ship.*
- (iii) To manage the response to emergencies on board or external to the ship.*

Learning Outcomes

After completing the module the student should be able to:

- 1 Establish watchkeeping arrangements and safety procedures.
- 2 Know how to manoeuvre the ship
- 3 Select a method of fixing the ship's position from onboard or externally derived data.

Learning Outcomes of Assessments

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

EXAM	1	2	3
CW	1	2	

Outline Syllabus

Identify all National and International legislation concerning safe navigation, navigation equipment, and qualifications for watchkeeping personnel.
Prepare standing and night orders.
Selection, use and knowledge of reliability of position fixing methods, paper and electronic chart and display systems. Use of the radar in collision avoidance.
The principle, operation and use of two types of gyro compass
Drills training and response to all emergencies including but not restricted to piracy, heavy weather, shifting cargo, equipment failure, passenger incidents.
Procedures to adopt: for leaving port, correct use of pilots, manning and communication between engine room and bridge , in heavy weather.
Design features of: propulsion systems, steering devices, thrusters affecting manoeuvrability.
External factors effecting manoeuvrability including shallow waters, weather and currents.
Understand how ship design effects manoeuvrability including use of ships manoeuvrability data.
Manoeuvre the ship in all situations, routine and emergency, including use of anchors and towage. Apply correct collision avoidance manoeuvre in all conditions of visibility

Learning Activities

Lectures and class discussion. Use of suitable videos. Use of Case studies

Notes

The module covers the requirements concerning the safe navigation and

manoeuvring of the ship and the correct use of its collision avoidance and navigation systems. It is intended for students who are following an approved STCW95 training programme at Chief Mate level, and provides the underpinning knowledge as described in MN2.3.1, MN3.1.3/4, MN5.1.1/2/4/5, MN9 and MO3.1.3/4. However students undertaking a career in a shore based Marine industry who wish to develop an understanding of how the ship is managed may find it interesting.