Liverpool John Moores University

Title:	BRIDGE WATCHKEEPING
Status:	Definitive
Code:	**4017NAU** (119097)
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
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Academic Level:	FHEQ4	**Credit Value:**	12	**Total Delivered Hours:**	67
Total Learning Hours:	120	**Private Study:**	53		

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

Component	Contact Hours
Lecture	30
Practical	15
Tutorial	15

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Computer Based or Oral examination on Buoyage & Lights	30	2
Exam	AS2	Bridge Procedures & emergencies examination	30	2
Exam	AS3	NAEST exams	40	3

Aims

To facilitate a thorough understanding of the Regulations for the Prevention of Collision at Sea (COLREGS) and International Association of Lighthouse Authority

(IALA) buoyage systems, explain bridge watchkeeping procedures and electronic navigation systems.

Learning Outcomes

After completing the module the student should be able to:

1	Interpret and explain how to apply regulations and systems for the safe movement of vessels.
2	Demonstrate a comprehension of bridge watchkeeping procedures.
3	Develop contingency plans for use in the event of emergencies and a knowledge of response to distress signals.
4	Demonstrates a knowledge of Electronic Navigation Systems.

Learning Outcomes of Assessments

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

Buoyage & lights Exam	1		
Bridge procedures exam	1	2	3
NAEST exams	4		

Outline Syllabus

Knowledge of International Collision Regulations: COLREGS and IALA buoyage systems. Regulations and systems for the safe movement of vessels
Bridge Resource Management: Bridge watchkeeping procedures.
Preparations to bridge equipment prior to departure and arrival.
Logbooks, standing orders, night orders. Circumstances to call Master.
Communication Procedures: Procedures relating to communications with bridge and engine personnel
Sighting of Hazards: Action if ice or icing is observed or suspected
Hazards and Emergencies: Recognise hazards and emergencies associated with the vessel
Means of warning: Type of alarms fitted to bridge equipment, and the action to take in the event of malfunction or failure of bridge equipment:
Contingency Service Operations: Contingency plans and action to take as OOW in the event of emergencies at sea or in port as applicable, execution of contingency plan.
Operation of Anchors: The use of anchors sufficient to ensure that the OOW could undertake duties involved in coming to a single anchor
Knowledge of Data Relating to Alarm Signals: Distress, Urgency and Safety signals
Search and Rescue Communication: Communication: Communications with the distressed craft in accordance with International Regulations and procedures
Obtaining information on the position and nature of the distress
Follow-up Measures: Further action required to comply with contingency planning and master's instructions:

Respond to Distress at Sea: General arrangements for search and rescue: The International Code of Signals, send and receive signals. Knowledge of Visual Signals: Visual safety, urgency and distress signals: Propagation of Radio Waves, ECDIS, LORAN, Echo Sounder, Log, Radar and ARPA, Radar Plotting Theory, DGPS & GPS, VDR and AIS.

Learning Activities

Formal Lectures and tutorials including quizzes. Internet based software for self-learning and self testing is available to all students.

Notes

Provides the detailed knowledge required by an Officer of the Watch (Deck) on a Merchant Ship