Liverpool John Moores University

Title:	Coastal Navigation and Meteorology
Status:	Definitive
Code:	**5505ALAM** (120670)
Version Start Date:	01-08-2015
Owning School/Faculty:	Engineering
Teaching School/Faculty:	Malaysian Maritime Academy

Team	Leader
Barbara Kelly	

Academic Level:	FHEQ5	**Credit Value:**	24.00	**Total Delivered Hours:**	110.00
Total Learning Hours:	240	**Private Study:**	130		

Delivery Options
Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	72.000
Tutorial	33.000

Grading Basis: 40 %

Assessment Details

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

Aims

To develop the techniques of navigation and demonstrate competency in appraising and planning a passage, incorporating the influence of weather.

Learning Outcomes

After completing the module the student should be able to:

LO 1	Appraise, plan, calculate and document a passage plan including contingencies.
LO 2	Understand the formation of weather systems and phenomena and obtain and evaluate meteorological data.

Learning Outcomes of Assessments

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

Exam	LO 1
Exam	LO 2

Outline Syllabus

Plan a voyage and conduct navigation
(inclusive during helicopter operations)
Routeing & reporting, Co-ordinate search and rescue operations
Voyage planning principles with respect to weather conditions and wave height
Radar plots, Calculation of tidal conditions
Terrestrial observations, Appropriate nautical publications on tides and currents
The Planetary System, Wind & Pressure., Air Mass Types and Weather
Synoptic and Prognostic Charts, Information from Fax Transmission, Internet and e-mails
Types of Floating Ice and movement, Safety of Navigation in Ice
Ice Accretion and remedies
Frontal System- Formation and weather, Frontal and non-frontal Depressions
Weather Characteristics for non-frontal
Tropical Revolving Storm, Ocean Water Circulation
Sea Waves and Swell Waves

Learning Activities

Lectures and tutorials.

Notes

This module provides an overview of passage planning for ships with consideration of meteorological data. 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.