

## Liverpool John Moores University

Title: CHARTWORK  
Status: Definitive  
Code: **4018MAR** (105580)  
Version Start Date: 01-08-2016

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

Team	Leader
Alan Wall	Y

**Academic Level:** FHEQ4      **Credit Value:** 12      **Total Delivered Hours:** 44  
**Total Learning Hours:** 120      **Private Study:** 76

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	20
Practical	12
Tutorial	12

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Essay	AS1	Chartwork Coursework (time constrained)	70	
Essay	AS2	Tidal Calculations (Time Constrained)	30	

### Aims

*To provide a detailed appreciation and understanding on the use, care and correction of charts and publications on board ship and to learn how to determine courses and tidal levels.*

## Learning Outcomes

After completing the module the student should be able to:

- 1 Evaluate the procedures necessary to ensure that all paper and electronic charts and publications are maintained and corrected.
- 2 Use Mercator Charts for visual position fixing methods.
- 3 Use chartwork techniques to find the adjustments to a vessel's course to take account of passage plan requirements.
- 4 Interpret navigational terms and derive courses and distances using charts.
- 5 Use tidal terminology and calculate the times and heights of tides worldwide.

## Learning Outcomes of Assessments

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

CW	1	2	3	4
CW	5			

## Outline Syllabus

*Management, correction and care of charts and publications.  
Navigational properties of charts. Meridional Parts  
Visual position fixing.  
Compass error. Course to steer. ETA. Adjustments.  
Mercator, Plane and Parallel Sailings.  
Tidal theory. Time, height and stream calculations.*

## Learning Activities

Lectures and tutorial work in chart laboratory.

## Notes

This module delivers the knowledge necessary to understand the use of charts and tides as prescribed by STCW for Deck officers.