

Warning: An incomplete or missing proforma may have resulted from system verification processing

Title: Navigation  
Status: Definitive  
Code: **5501BFC** (117430)  
Version Start Date: 01-08-2019

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

Team	Leader
Barbara Kelly	Y

**Academic Level:** FHEQ5      **Credit Value:** 24      **Total Delivered Hours:** 120  
**Total Learning Hours:** 240      **Private Study:** 120

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	92
Tutorial	24

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam 1		50	2
Exam	Exam 2		30	2
Essay	Essay		20	

### Aims

*To assess the planning and monitoring of the routing of vessels worldwide.*

### Learning Outcomes

After completing the module the student should be able to:

- 1 Complete a passage plan for a vessel on an international voyage.
- 2 Resolve celestial navigation problems.
- 3 Explain search and rescue procedures.
- 4 Assess the factors relating to Bridge Resource Management.
- 5 Respond effectively to navigational emergencies

### **Learning Outcomes of Assessments**

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

Examination 1	1	5
Examination 2	2	
Essay	3	4

### **Outline Syllabus**

*Passage planning for worldwide and coastal sections of voyage.*

*Position fixing using great circle and celestial navigation.*

*Electronic systems of position fixing including the use of Radar in safe navigation.*

*Co-ordinate search and rescue operations.*

*Bridge resource management.*

*Respond to navigational emergencies.*

### **Learning Activities**

Classroom based lectures and tutorials including the use of appropriate simulator facilities where possible.

### **Notes**

This module contributes to the knowledge required to gain a degree in Nautical Science and professional qualification for the Merchant Navy.