Liverpool John Moores University

Title:	NAVIGATION
Status:	Definitive
Code:	**5101NAU** (121780)
Version Start Date:	01-08-2021
Owning School/Faculty:	Engineering
Teaching School/Faculty:	Engineering

Team	Leader
Mike Stringfellow	Y
Ewan Kirkbride	

Academic Level:	FHEQ5	**Credit Value:**	20	**Total Delivered Hours:**	75
Total Learning Hours:	200	**Private Study:**	125		

Delivery Options
Course typically offered: Semester 1

Component	Contact Hours
Lecture	60
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS2	Examination - Passage Plan	30	1.5
Exam	AS1	Examination - Celestial Navigation	40	1.5
Essay	AS3	Coursework - Coastal Passage Plan	30	

Aims

To assess the planning and monitoring of the routeing of vessels worldwide.

Learning Outcomes

After completing the module the student should be able to:

1 Complete a coastal passage plan.
2 Demonstrate the ability to determine a recommended ocean route including sailing calculations relevant to both coastal and ocean passages.
3 Resolve celestial navigation problems.

Learning Outcomes of Assessments

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

Passage Plan	2
Celestial Navigation	3
Coastal Passage Plan	1

Outline Syllabus

The principles of Great Circle Sailing.
Obtaining correct tidal information.
The principles of effective passage planning.
The appropriate charts and publications to appraise the proposed passage.
Appraising the intended passage, taking into account main, relevant factors.
Preparing and documenting the intended passage plan.
Making contingency plans for emergency situations in critical navigation areas.
Evaluating the completed passage plan prior to commencement of the passage.
Accurately evaluating, plotting and recording necessary alterations to the passage plan.
Celestial Navigation.
Electronic systems of position fixing and navigation.

Learning Activities

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

Notes

This module can contribute to the underpinning knowledge required for progression to an Officer of the Watch professional qualification.