

Liverpool John Moores University

Title: SHIP TECHNOLOGY
Status: Definitive
Code: **5103NAU** (121782)
Version Start Date: 01-08-2021

Owning School/Faculty: Engineering
Teaching School/Faculty: Engineering

Team	Leader
Milad Armin	Y
Barbara Kelly	
Geraint Phylip-Jones	

Academic Level: FHEQ5 **Credit Value:** 10 **Total Delivered Hours:** 37.5
Total Learning Hours: 100 **Private Study:** 62.5

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Tutorial	12

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination - Machinery and maintenance	100	1.5

Aims

Assess the remote operation of controls of propulsion plant and engineering systems and services.

Learning Outcomes

After completing the module the student should be able to:

- 1 Assess the use of different plant systems as main propulsion on vessels
- 2 Assess the operation of auxiliary plant systems.
- 3 Understand the factors influencing maintenance decisions on vessels.

Learning Outcomes of Assessments

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

Machinery and maintenance	1	2	3
---------------------------	---	---	---

Outline Syllabus

The range and application of materials and processes.

The properties and safe use of maintenance equipment and materials.

Diesel plant, steam turbine plant, gas turbine plant, transmission of power to the propulsion plant.

The function and operational limitations of auxiliary plant.

Steering and manoeuvring systems.

Marine engineering terms.

The concepts of control systems.

The principles of bridge control.

Factors affecting fuel consumption.

Learning Activities

Classroom based lectures and tutorials including the use of appropriate software based programmes where possible.

Notes

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