

Liverpool John Moores University

Title: Engineering Control Systems
Status: Definitive
Code: **5536ALAM** (123843)
Version Start Date: 01-08-2019

Owning School/Faculty: Engineering
Teaching School/Faculty: Malaysian Maritime Academy

Team	Leader
Barbara Kelly	Y

Academic Level: FHEQ5 **Credit Value:** 10 **Total Delivered Hours:** 60.5
Total Learning Hours: 100 **Private Study:** 39.5

Delivery Options

Course typically offered: Non Standard Year Long

Component	Contact Hours
Lecture	44
Tutorial	14

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	AS1	Examination	100	2.5

Aims

To comprehend and develop an awareness of control systems of seagoing vessels.

Learning Outcomes

After completing the module the student should be able to:

- 1 Assess the design of marine power plant.

2 Develop an understanding of marine auxilliary machinery.

Learning Outcomes of Assessments

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

Exam	1	2
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Outline Syllabus

*Marine Engineering Terms, Marine Diesel Engine Power Plant
Marine Steam Turbine Power Plant, Marine Gas Turbine Power Plant
Auxiliary Boilers, Propeller, stern tube, shafting & CPP
Fresh Water Generators, Pumps and pumping systems
Steering Gears, Electrical power Generation and electrical distribution
Refrigeration, air conditioning & ventilation, Stabilisers
Sewage treatment plant, Oily Water separators and oil filtering equipment
Incinerators, Deck Machinery, Hydraulic systems
Fuel Consumption Estimations, Control terminology and Theory
Bridge Control of propulsion machinery, Engineering watchkeeping for safety
Engineering watchkeeping for DG*

Learning Activities

Lectures and tutorials.

Notes

This module provides the knowledge for Merchant Navy Deck Personnel in the management of control systems on ships.