

Summary Information

Module Code	7335MECH
Formal Module Title	Maritime and Offshore Safety Analysis
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 7
Grading Schema	50

Module Contacts**Module Leader**

Contact Name	Applies to all offerings	Offerings
Jin Wang	Yes	N/A

Module Team Member

Contact Name	Applies to all offerings	Offerings
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Partner Module Team

Contact Name	Applies to all offerings	Offerings
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Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
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Lecture	22
Tutorial	11

Module Offering(s)

Offering Code	Location	Start Month	Duration
SEP-CTY	CTY	September	12 Weeks
SEP_NS-CTY	CTY	September (Non-standard start date)	12 Weeks

Aims and Outcomes

Aims	To enable students to understand and implement the requirements of formal safety design, assessment and review in marine, offshore and port areas.
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Learning Outcomes

After completing the module the student should be able to:

Code	Description
MLO1	Understand and apply the analyses required for safety evaluation from both design and operation aspects.
MLO2	Carry out critical analysis to balance the requirements of design for safety and management of safety.
MLO3	Analyse and specify how safety may be controlled.
MLO4	Carry out a formal safety assessment on both a qualitative and quantitative basis, and analyse and evaluate the results of these assessments.

Module Content

Outline Syllabus
Introduction to safety and risk. Risk and safety regulations in marine engineering. Hazard identification techniques. Hazard analysis. Consequence analysis. Safety and risk evaluation. Risk based decision analysis. Human factors and safety management. Marine, offshore and port safety assessment.

Module Overview

Additional Information
The module is designed to provide the underpinning knowledge and understanding to implement formal maritime safety assessment procedures. This module includes content which relates to the following UN Sustainable Development Goal: SDG10 – This module will consider how engineering designers can consider accessibility when developing new products.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Learning Outcome Mapping
Centralised Exam	Examination	70	2	MLO3, MLO1, MLO4, MLO2
Report	Report	30	0	MLO3, MLO1, MLO4, MLO2