

Module Information

2022.01, Approved

Summary Information

Module Code	5105MAR
Formal Module Title	Environment and Sustainability
Owning School	Engineering
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

Teaching Responsibility

LJMU Schools involved in Delivery
Engineering

Learning Methods

Learning Method Type	Hours
Lecture	22
Tutorial	22

Module Offering(s)

Display Name	Location	Start Month	Duration Number Duration Unit
JAN-CTY	CTY	January	12 Weeks

Aims and Outcomes

Aims	To analyse a range of environmental impacts linked to the maritime and logistics sectors, and to appraise regulations and practices which control their effects.
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After completing the module the student should be able to:

Learning Outcomes

Code	Number	Description
MLO1	1	Analyse the impact of the maritime and logistics sectors on the physical environment
MLO2	2	Examine the role of legislation intended to minimise impact on the environment
MLO3	3	Appraise the impact and implications of control measures within the maritime and logistics sectors
MLO4	4	Examine the financial implications of environmental compliance

Module Content

Outline Syllabus	The effect of transport on the environment on air, water and land. The concept of environmental sustainability. Global, transboundary and local pollution issues. Emissions and their effects: NO _x , SO _x etc. Environmental Impact Assessment. Fossil fuels and their resource issues. Alternative fuels, their production and emissions. Pollution conventions. The polluter paysMARPOL, SECAGreen shipping, fuel saving methods, development of the eco-shipEuro-spec legislation in the road transport sector.Noise pollution and its impact
Module Overview	The aim of this module is to analyse a range of environmental impacts linked to the maritime and logistics sectors, and to appraise regulations and practices which control their effects.
Additional Information	Applies environmental law to transport issues.

Assessments

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Report	Report 2000 words	40	0	MLO3
Centralised Exam	Examination	60	2	MLO1, MLO2, MLO4

Module Contacts

Module Leader

Contact Name	Applies to all offerings	Offerings
Christos Kontovas	Yes	N/A

Partner Module Team

Contact Name	Applies to all offerings	Offerings
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