

Liverpool John Moores University

Title: Environment and Sustainability
Status: Definitive
Code: **5105MAR** (121919)
Version Start Date: 01-08-2021

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

Team	Leader
Christos Kontovas	Y

Academic Level: FHEQ5 **Credit Value:** 20 **Total Delivered Hours:** 46
Total Learning Hours: 200 **Private Study:** 154

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	22
Tutorial	22

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Report	2000 words	Report 2000 words	40	
Exam	Exam	2 hour exam	60	2

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.

Learning Outcomes

After completing the module the student should be able to:

- 1 Analyse the impact of the maritime and logistics sectors on the physical environment
- 2 Examine the role of legislation intended to minimise impact on the environment
- 3 Appraise the impact and implications of control measures within the maritime and logistics sectors
- 4 Examine the financial implications of environmental compliance

Learning Outcomes of Assessments

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

Report 2000 words	3		
Examination	1	2	4

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: NOx, SOx etc.
Environmental Impact Assessment.
Fossil fuels and their resource issues. Alternative fuels, their production and emissions.
Pollution conventions. The polluter pays
MARPOL, SECA
Green shipping, fuel saving methods, development of the eco-ship
Euro-spec legislation in the road transport sector.
Noise pollution and its impact

Learning Activities

Integrated series of formal lectures and tutorials.

Notes

Applies environmental law to transport issues.