

Liverpool John Moores University

Title: NATURAL RESOURCES AND HAZARDS
Status: Definitive
Code: **4304NATSCI** (121165)
Version Start Date: 01-08-2021

Owning School/Faculty: Biological and Environmental Sciences
Teaching School/Faculty: Biological and Environmental Sciences

Team	Leader
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Academic Level: FHEQ4 **Credit Value:** 20 **Total Delivered Hours:** 62
Total Learning Hours: 200 **Private Study:** 138

Delivery Options

Course typically offered: Semester 2

Component	Contact Hours
Lecture	24
Off Site	5
Practical	26
Workshop	5

Grading Basis: 40 %

Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Examination	50	2
Report	Report	Field/laboratory report	50	

Aims

To provide an understanding of the environmental and human impacts associated with the exploitation of natural resources and naturally occurring hazards.

Learning Outcomes

After completing the module the student should be able to:

- 1 Describe and explain the occurrence and use of a range of natural resources
- 2 Explain the nature of natural hazards and their impact on the human environment
- 3 Use practical skills to collect, analyse and present information relating to the hazards associated with natural resource exploitation
- 4 Recognise and discuss the environmental, social and economic factors associated with natural resource exploitation and natural hazard mitigation

Learning Outcomes of Assessments

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

Exam	1	2	4
Field/Laboratory Report	3	4	

Outline Syllabus

Exploitation of natural resources and the associated pollution problems. Mitigation of environmental impacts related to resource exploitation. Geochemical mapping of areas polluted by historical resource extraction. An introduction to a range of natural hazards, (such as flooding, hurricanes, volcanic eruptions, earthquakes etc.) the impact on the natural and physical environment and human response to naturally occurring geohazard events. Case study examples.

Learning Activities

A range of practical techniques in the field and the laboratory are introduced in this module, supported by a lecture programme. Workshops are included to assist with interpretation of environmental data collected in the field and analysed in the laboratory.

Notes

This module presents an overview of natural resources and the environmental and human hazards associated with their exploitation. A range of natural hazards are also examined (including floods, hurricanes, volcanic eruptions and earthquakes) and their causes, effects and mitigation strategies evaluated.