

## Liverpool John Moores University

Title: NATURAL RESOURCES AND HAZARDS  
Status: Definitive  
Code: **4104NATSCI** (112575)  
Version Start Date: 01-08-2015

Owning School/Faculty: Natural Sciences & Psychology  
Teaching School/Faculty: Natural Sciences & Psychology

Team	Leader
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**Academic Level:** FHEQ4      **Credit Value:** 24.00      **Total Delivered Hours:** 65.50  
**Total Learning Hours:** 240      **Private Study:** 174

### Delivery Options

Course typically offered: Standard Year Long

Component	Contact Hours
Lecture	22.500
Off Site	4.000
Practical	30.500
Workshop	7.000

**Grading Basis:** 40 %

### Assessment Details

Category	Short Description	Description	Weighting (%)	Exam Duration
Exam	Exam	Exam	40.0	1.50
Report	Leaflet	Case Study	20.0	
Report	Report	Field/Laboratory report	40.0	

### 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
Case study leaflet	2	4	
Field and practical report	3		

## **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, earthquakes, volcanoes, mining 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. A workshop is 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, earthquakes, volcanoes etc.) and their causes, effects and mitigation strategies evaluated.