

## Module Information

2022.01, Approved

### Summary Information

Module Code	5309NATSCI
Formal Module Title	Volcanoes Earthquakes and Society
Owning School	Biological and Environmental Sciences
Career	Undergraduate
Credits	20
Academic level	FHEQ Level 5
Grading Schema	40

### Teaching Responsibility

LJMU Schools involved in Delivery
Biological and Environmental Sciences

### Learning Methods

Learning Method Type	Hours
Lecture	20
Practical	22
Workshop	6

### Module Offering(s)

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

### Aims and Outcomes

Aims	To provide students with a broad understanding of volcanic processes, earthquakes, deformation and faulting and the resulting hazards and mitigation.
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**After completing the module the student should be able to:**

**Learning Outcomes**

Code	Number	Description
MLO1	1	Discuss the tectonic processes associated with the origin of volcanoes, earthquakes and their associated hazards
MLO2	2	Model the effects of volcanic activity using GIS and evaluate the output
MLO3	3	Discuss the origin and nature of seismic activity
MLO4	4	Discuss how to monitor and mitigate the effects of volcanic and earthquake activity.

**Module Content**

Outline Syllabus	Tectonics background. Introduction to volcanoes and earthquakes. Volcanoes and eruption styles. Origin and description of Earth deformation/earthquakes. Volcanoes and Earthquakes-hazards and mitigation. Case studies from around the world. Volcanoes and Earthquakes impact on society. Individual Formative assessment on "seen exam question" preparation is provided.
Module Overview	The aim of this module is provide you with a broad understanding of volcanic processes, earthquakes, deformation and faulting and the resulting hazards and mitigation.
Additional Information	This module explores the consequences of tectonic activity in the form of earthquakes and volcanoes: their effects, products, monitoring and mitigation.

**Assessments**

Assignment Category	Assessment Name	Weight	Exam/Test Length (hours)	Module Learning Outcome Mapping
Centralised Exam	Exam	50	2	MLO1, MLO3, MLO4
Report	Report	50	0	MLO1, MLO2

**Module Contacts**

**Module Leader**

Contact Name	Applies to all offerings	Offerings
Silvia Gonzalez	Yes	N/A

**Partner Module Team**

Contact Name	Applies to all offerings	Offerings
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