

MODULE SPECIFICATION

Part 1: Information						
Module Title	Structural Geology and Geophysics					
Module Code	UBGMPQ-30-3		Level	Level 6		
For implementation from	2020-21					
UWE Credit Rating	30		ECTS Credit Rating	15		
Faculty	Faculty of Environment & Technology		Field	Geography and Environmental Management		
Department	FET [FET Dept of Geography & Envrnmental Mgmt				
Module type:	Standard					
Pre-requisites		None				
Excluded Combinations		None				
Co- requisites		None				
Module Entry requirements		None				

Part 2: Description

Features: Module Entry Requirements: 60 credits at Level 2

Educational Aims: This module will build on levels 1 and 2 modules addressing geological

structures and plate tectonics.

Outline Syllabus: You will cover:

Principal theories and concepts of structural geology and geophysics

Styles of deformation, stress and responses.

Rheology and quantification of deformation.

Structural systems and evolution in time and space.

Global tectonics.

Gravity measurements and applications.

Seismology and whole Earth structure.

Geomagnetism and geoelectricity.

Map interpretation and geophysical surveys.

Teaching and Learning Methods: The principal theories and concepts will be introduced through lectures and case studies. These will be reinforced through tutorial discussions and

STUDENT AND ACADEMIC SERVICES

project work. There will be practical and computer-based workshops to develop students' interpretational, graphics and presentation skills. One-to-one support will be provided during practical and tutorial sessions and via email.

Part 3: Assessment

Summative assessment:

Component A – Examination (2 hours):

Written examination with a practical component.

Strategy:

This will assess students' ability to interpret rock deformation in terms of global tectonic processes. Students will be able to demonstrate their understanding of key concepts in structural geology and geophysics and their ability to explain and synthesis relationships between surface and subsurface processes. The exam will also assess students' engagement with academic literature.

Component B - Report:

The report will be equivalent to 2500 words.

Strategy:

The report will enable students to demonstrate their knowledge and skills using various media.

It will enable assessment of their ability to organise their thoughts, summarise their knowledge and express interpretations and arguments.

Students will be able to demonstrate their engagement with academic literature.

Formative work:

Formative work will be set weekly during practical sessions for students' self-assessment. Formative work will be an integral part of the reading strategy. Students will receive preparation practical exercises that will help with interpretative questions for the summative assessment.

First Sit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words)
Examination (Online) - Component A	✓	50 %	Online Examination
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words)
Examination (Online) - Component A	✓	50 %	Online Examination

Part 4: Teaching and Learning Methods					
Learning Outcomes	On successful completion of this module students will achieve the follo	wing learning	outcomes:		
	Module Learning Outcomes				
	Categorize and interpret rock deformation in terms of global tectonic processes				
	Critically evaluate geophysical concepts and the use of geophysical survey methods in interpretation of geological structures and maps and in site investigations				
	Explain and synthesise the relationships between active tectonic processes on the Earth's surface and underlying processes within the Earth				
	Quantify rock deformation over space and time				
	Demonstrate independent and critical engagement with academic lite	rature	MO5		
Contact Hours	independent study flours.				
	Independent study/self-guided study	22	0		
	Total Independent Study Hours:	22	8		
	Scheduled Learning and Teaching Hours:				
	Face-to-face learning	72	2		
	Total Scheduled Learning and Teaching Hours:	72	2		
	Hours to be allocated	30	0		
	Allocated Hours	30	0		
Reading List	The reading list for this module can be accessed via the following link: https://uwe.rl.talis.com/modules/ubgmpq-30-3.html				

Part 5:	Contributes	Towards
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This module contributes towards the following programmes of study:

Geology [Sep][FT][Frenchay][3yrs] BSc (Hons) 2018-19