

MODULE SPECIFICATION

Part 1: Information							
Module Title	Struc	Structural Geology and Geophysics					
Module Code	UBGMPQ-30-3		Level	Level 6			
For implementation from	2019-	20					
UWE Credit Rating	30		ECTS Credit Rating	15			
Faculty	Faculty of Environment & Technology		Field	Geography and Environmental Management			
Department	FET [T Dept of Geography & Envrnmental Mgmt					
Module type:	Stand	tandard					
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 local field work aimed at providing the basis for the coursework assessment. 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 – Fieldwork report and map interpretation:

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 and field 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 - Component A	✓	50 %	Examination (2 hours)
Resit Components	Final Assessment	Element weighting	Description
Report - Component B		50 %	Report (2500 words)
Examination - Component A	✓	50 %	Examination (2 hours)

Part 4: Teaching and Learning Methods					
Learning Outcomes	On successful completion of this module students will achieve the following	wing learning o	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 literature				
Contact Hours	i macpenacin state, notice				
	independent study/sen-guided study	22	120		
	Total Independent Study Hours:	8			
	Scheduled Learning and Teaching Hours:				
	Face-to-face learning	2			
	Total Scheduled Learning and Teaching Hours:	2			
	Hours to be allocated	0			
	Allocated Hours	30	300		
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	
This module contributes towards the following programmes of study:	