MODULE SPECIFICATION

Part 1: Information			
Module Title	Economic Geology		
Module Code	UBGMNP-15-3	Level	Level 6
For implementation from	2019-20		
UWE Credit Rating	15	ECTS Credit Rating	7.5
Faculty	Faculty of Environment & Technology	Field	Geography and Environmental Management
Department	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:
Students must have 60 credits at Level 2

Educational Aims: See Learning Outcomes

Outline Syllabus: Genetic classification of ore and mineral deposits.
Ore formation: magmatic, residual, sedimentary systems.
Metamorphic ore deposits.
Economic importance of metal deposits.
Industrial minerals, aggregates, salt.
Fossil energy: coal, oil and gas, formation and exploitation.
Environmental aspects of exploitation of mineral and fossil energy resources.

Teaching and Learning Methods: Scheduled learning on this module includes lectures, demonstrations and practical classes. Local fieldwork sessions will aid knowledge and skills development

Independent learning includes hours engaged with essential reading, completion of practical work, assignment preparation and completion. These sessions constitute an average time as indicated below.

Activity (Hours)
Contact time (lectures, field and laboratory sessions) (36)
Assimilation, development of knowledge and independent reading (65)
Exam preparation (24)
Coursework preparation (25)
Total study time (150)

Students will receive, on average, 3 hours contact time per week. This will be predominantly in the form of lectures that will cover the principles and processes related to ore-forming minerals and hydrocarbon resources. There will be practical sessions to enable students to revise and improve their recognition skills and knowledge of the most common economic minerals plus map and graphics work to introduce some of the principles of and techniques used in hydrocarbon exploration.

Some sessions will take the form of tutorials for students to discuss site interpretation and environmental aspects. There may also be local fieldwork or site visits. One-to-one support will be provided during practical sessions and via email.

Part 3: Assessment

Summative assessment:

Component A – Examination (1 hour). Learning outcomes 1-5.

Written examination based on a choice of seen questions.

This will assess students' ability to research academic literature and apply it to interpretation of ore-forming or hydrocarbon reservoir processes and exploitation.

Students will be able to demonstrate their understanding of key processes and discuss environmental impacts of exploitation.

Component B – Essay (1500 words). Learning outcomes 1-5.

Students will be able to demonstrate that they can construct an argument and support it critically with references from academic literature.

The essay will assess the students' understanding and ability to analyse and synthesis information.

Formative work:

Formative work will be set weekly during practical and tutorial sessions for students' self assessment. Students will receive preparation exercises including discussions during tutorials for the summative assessment.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		50 %	Essay (1500 words)
Examination - Component A	✓	50 %	Written examination based on choice of seen questions (1 hour)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Written Assignment - Component B		50 %	Essay (1500 words)
Examination - Component A	✓	50 %	Written examination based on choice of seen questions (1 hour)

Part 4: Teaching and Learning Methods

Learning Outcomes

On successful completion of this module students will achieve the following learning outcomes:

Module Learning Outcomes	Reference
Review and explain the range of ore-forming processes and the systems that generate fossil fuels.	MO1
Identify and interpret the global locations of mineral and fossil energy resources	MO2
Critically evaluate the impact of mineral and fossil fuel exploitation	MO3
Produce coherent written arguments that discuss sustainable and environmentally responsible management of economic resources	MO4
Demonstrate independent engagement with academic literature	MO5

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	114
Total Independent Study Hours:	114
Scheduled Learning and Teaching Hours:	
Face-to-face learning	36
Total Scheduled Learning and Teaching Hours:	36
Hours to be allocated	150
Allocated Hours	150

Reading List

The reading list for this module can be accessed via the following link:

https://uwe.rl.talis.com/index.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: