MODULE SPECIFICATION

Part 1: Information			
Module Title	21st Century Economic Geology		
Module Code	UBGMNP-15-3	Level	Level 6
For implementation from	2020-21		
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.
Environmental aspects of exploitation of mineral energy resources.
An understanding of carbon capture and carbon storage.

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/practicals that will cover the principles and processes related to ore-forming minerals and carbon storage. 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.

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 1-4.

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 reservoir processes and exploitation or there understanding of carbon capture and storage.

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

Component B – Group Report (2000 words per group report). Learning outcomes 1-4.
Students will be based in groups to collect (data will be provided if students cannot collect their own data due to COVID-19) and analyse data and work together to determine the amount of remediation needed for an area. The group together will collect data and then distribute the data for analysis and come together to write up the report. Groups will be between 3-4 people with a maximum of 650 words per person.
Students will be able to demonstrate that they can construct an argument and support it critically with references from academic literature.
Guidance on how to complete group work will be provided and students will be expected to attend timetabled sessions to share their progress with the work. Students will be expected to complete individual peer assessment forms as part of the submission, as set out in the FET Group work policy. There will be one mark given per group if the peer assessment form indicate that the work was completed equally; if these forms indicate that one person has not completed the same amount of work the marks will be different for the people within the group.

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.

Resit:

Component A – Examination. Learning outcomes 1-4.

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 reservoir processes and exploitation or there understanding of carbon capture and storage.

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

Component B – Report (1000 words). Learning outcomes 1-4.

Data will be given to the student to analyse and determine the amount of remediation needed for an area. Students will be able to demonstrate that they can construct an argument and support it critically with references from academic literature.
The word count here is more than the first sit as this work is individual and not completed in a group.

First Sit Components	**Final Assessment**	**Element weighting**	**Description**
Examination (Online) - Component A	✓	50 %	Online Written examination based on choice of seen questions. Academic year 2020-2021 year this will be an online exam.
Group work - Component B		50 %	Report (2000 words)
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Examination (Online) - Component A	✓	50 %	Online Written examination based on choice of seen questions
Written Assignment - Component B		50 %	Essay (1500 words)

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 resources and locations of carbon capture and carbon storage.	MO2
Critically evaluate the impact of mineral exploitation	MO3
Produce coherent written arguments that discuss sustainable and environmentally responsible management of economic resources	MO4

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://rl.talis.com/3/uwe/lists/F5000F32-D53A-8239-DEA1-CD4A679A9278.html?lang=en-US&login=1	

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