MODULE SPECIFICATION

Part 1: Information			
Module Title	Applied Sedimentology		
Module Code	UBGLF1-15-3	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	Sedimentary Environments and Palaeoecology 2018-19		
Excluded Combinations	None		
Co- requisites	None		
Module Entry requirements	None		

Part 2: Description

Educational Aims: See Learning Outcomes

Outline Syllabus: 1. Principal theories and concepts in sedimentology.
2. Climate and tectonic processes.
3. Sequence stratigraphy.
4. Basin analysis.
5. Diagenesis and geochemistry of sedimentary rocks.
6. Seismic interpretation, 2D & 3D.
7. Core analysis.

Teaching and Learning Methods: Scheduled learning on this module includes lectures, demonstrations and practical classes.

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 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 hydrocarbon exploration and production. There will be practical sessions to enable students to revise and improve their recognition skills and knowledge of basin correlation.

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. Learning outcomes 1-3 & 6.

Students will be able to demonstrate their understanding of key sedimentological processes and discuss hydrocarbon exploration and production.

Component B – Company Report (1500 words). Learning outcomes 1-6.

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

Resit:

Component A – Examination (1 hour). Learning outcomes 1-3 & 6.

Component B – Company Report (1500 words). Learning outcomes 1-6.

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**
Examination (Online) - Component A	✓	50 %	Online exam covering mateial from any part of the semester.
Professional Practice Report - Component B		50 %	1500 word (or equivalent) based on an area of your choosing.
Resit Components	**Final Assessment**	**Element weighting**	**Description**
Examination (Online) - Component A	✓	50 %	Online exam covering material from any part of the semester.
Professional Practice Report - Component B		50 %	1500 word (or equivalent) based on an area of your choosing.

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
Articulate principle theories and concepts in sedimentology (Component A/B)	MO1
Model and interpret sedimentological environments from field and data analysis (Component A/B)	MO2
Appraise and implement analytical and graphical techniques to investigate sedimentary basins (Component A/B)	MO3
Synthesise and apply sedimentological skills and knowledge to conduct a basin analysis project at a professional level (Component B)	MO4
Demonstrate independent and critical engagement with academic literature (Component B)	MO5
Demonstrate transferable skills including communication (oral, written and aural), team work, decision making, risk analysis, and time and project management (Component A/B).	MO6

Contact Hours

Independent Study Hours:	
Independent study/self-guided study	114
Total Independent Study Hours:	114
Scheduled Learning and Teaching Hours:	
Tutorials	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/modules/ubgmq9-30-3.html

Part 5: Contributes Towards

This module contributes towards the following programmes of study: