Module code	SG-1206			
Module Title	Introduction to Sedimentology and Stratigraphy			
Degree/Diploma	Bachelor of Science (Geology)			
Type of Module	Major Core			
Modular Credits	4	Total student Workload	10	hours/week
		Contact hours	6	hours/week
Prerequisite	None			
Anti-requisite	SG-2303 Sedimentology and Stratigraphy			

Aims

Formation and evolution of clastic and chemical sedimentary rocks will be discussed including study of texture and mineralogical composition of sedimentary rocksin hand specimens and under the petrographic microscope. The development of different sedimentary facies and interpretation of their depositional environments is discussed. Diagenesis and its role to the reservoir quality evolution is studied. The module includes lectures on Stratigraphy and various methods for stratigraphic correlation and age relationships.

Learning Outcomes

On successful completion of this module, a student will be expected to be able to:

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Lower order :	30%	 understand the basic difference between Sedimentology and Stratigraphy understand and identify the basic sedimentary rocks and their formation understand the significance of Stratigraphy 		
Middle order :	50%	 analyse various univariable, categorical and numerical data describe the diagenetic processes affecting sedimentary rocks distinguish the different sedimentary rock-types in hand specimens and in thin sections using a microscope 		
Higher order:	20%	 justify sedimentary textures and structures and to communicate them appraise the quality of sedimentary rocksfromtheir composition 		

Module Contents

- The effect of the "Sedimentary cycle" on concentrations of clastic and chemical components
- Primary sedimentary structures and textures; classification and composition of sedimentary rocks
- Diagenesis and its impact on reservoir evolution and quality; reservoir characterisation
- Lithostratigraphy, Biostratigraphy and Chronostratigraphy

Assessment	Formative	Practical tests, assignments and feedback.
	assessment	
	Summative	Examination: 50%
	assessment	Coursework: 50%
		- 6 written assignments (30%)
		- 2 class tests (20%)