Module Code	SG-5102			
Module Title	Seismic Interpretation			
Degree/Diploma	Master of Science in Petroleum Geosciences by Coursework			
Type of Module	Core			
Modular Credits	4	**Total student Workload**	8	hours/week
		Contact hours	4	hours/week
Prerequisite	None			
Anti-requisite	None			

Aims

To provide understanding of seismic interpretations for developing a geologic model and prepare maps related to subsurface stratigraphy and different structural styles which in turn will help to find petroleum prospect and quantify reservoir properties.

Learning Outcomes

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

Lower order:	30%	- recognise the basic principles of seismic interpretation - describe the basic applications of seismic interpretation
Middle order:	50%	- analyse seismic data for oil and gas exploration - perform qualitative and quantitative interpretation for seismic data
Higher order:	20%	- evaluate a new well position - review the pit falls of petroleum exploration - competent to take a decision for lunching an exploration project - work in a group

Module Contents

- Introduction
- Principles of the Seismic Method
- Acquisition and processing in brief
- Data display
- Tying in Well Data
- Velocity analysis
- Structural interpretation
- Stratigraphic interpretation
- Predicting physical properties/quantitative interpretation

Assessment	Formative assessment	Weekly discussion, practical tests and feedback
		Examination: 50%

	Summative assessment	Coursework: 50% - 4 individual written assignments (20%) - 1 group written assignment (20%) - 1 class test (10%)