

Module code	SG-5308		
Module Title	Production Geology		
Degree/Diploma	Master of Science in Petroleum Geosciences by Coursework		
Type of Module	Option		
Modular Credits	4	Total student Workload	8 hours/week
		Contact hours	4 hours/week
Prerequisite	None		
Anti-requisite	None		
Aims To provide lessons to face the technical and financial difficulties and challenges to develop an oil or gas field which involves to compile a huge data set to develop multiple scenarios that explains reevaluation of oil or gas reserve or remaining reserve.			
Learning Outcomes <i>On successful completion of this module, a student will be able to:</i>			
Lower order:	20%	- recognise the principles of production geology - describe the applications of production geology	
Middle order:	50%	- analyse data, tools and methods used for production geology - interpret different models used for production geology	
Higher order:	30%	- appraise potential areas of bypassed oil and gas, optimise the production - develop field development plan with multiple scenarios - work in a team and communicate technical terms - play a vital role in decision making processes	
Module Contents - The production geologist and the reservoir - The geologic scheme - Flow geology - Reservoir modelling and geostatistics - Locating the remaining hydrocarbons - Well planning - Depositional environments and their flow characteristics			
Assessment	Formative assessment	Weekly discussion, practical tests and feedback	
	Summative assessment	Examination: 50%	
		Coursework: 50% - 5 individual written assignments (30%) - 1 group presentation (10%) - 1 class test (10%)	

