

Module code	SG-5305		
Module Title	Petroleum Geology of southeast Asia		
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 overall understanding of the petroleum systems in southeast Asia and history of finding oil and gas in this region. To get the first-hand knowledge of hydrocarbon occurrence, origin, distribution, exploration and development of oil and gas resources of southeast Asia.			
Learning Outcomes <i>On successful completion of this module, a student will be able to:</i>			
Lower order:	30%	- assess the petroleum system elements and its processes - recall the different sedimentary basins in southeast Asia	
Middle order:	50%	- explain the source rock potential and hydrocarbon potentiality in southeast Asia - characterise the reservoir rocks - explain the different seal, cap and traps in Southeast Asia - identify the factors affecting the rock fluid interaction in the reservoir	
Higher order:	20%	- appraising petroleum systems and judge hydrocarbon potentiality - interpret data for reserve estimation	
Module Contents - History of Petroleum system and evolution in southeast Asia - Petroleum exploration methods and tools - Source rocks in southeast Asia - Processes of catagenesis and maturation of source rocks - Generation and migration of hydrocarbons - Rock-fluid interaction and reservoir properties - Oil traps (definition, types, classification) - Seal and cap rocks and importance in accumulation			
Assessment	Formative assessment	Weekly discussion, practical tests and feedback	
		Examination: 50%	

	Summative assessment	Coursework: 50% <ul style="list-style-type: none"> - 5 individual written assignments (30%) - 2 class tests (20%)
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