

MASTER OF ENGINEERING (OIL AND GAS) BY COURSEWORK

COURSE STRUCTURES

List of Core Courses

Semester	No	Course code*	Course name	Credit hour
1	1	KOG10103	Fundamentals of Oil & Gas Engineering	3
	2	KOG10303	Formation evaluation	3
	3	KOG10503	Reservoir Engineering	3
	4	KOG10703	Safety, Environmental Impact and Risk Management	3
	Credit hour/semester			12
2	1	KOG10903	Oil & Gas Project Management and Economics	3
	2	KOG10203	Petroleum Production Engineering	3
	3	KOG10403	Drilling and Well Completion	3
	4	KOG10602	Research Methodology	2
	Credit hour/semester			11
3	1	KOG10804	Field Development Project	4
	2	KOGE1xxx3	Elective 1	3
	Credit hour/semester			7
4	1	KOG00110	Project	10
	Credit hour/semester			10
Total credit hour				40

List of Elective Courses

No	Course code	Course name	Credit hour
Subsurface Engineering			
1	KOGE11003	Enhanced Oil Recovery	3
2	KOGE11203	Reservoir Simulation and Data Management	3
3	KOGE 11403	Gas Transportation and Storage	3
Surface Engineering			
4	KOGE11603	Facilities Engineering	3
5	KOGE11803	Downstream Processing	3
6	KOGE12003	Processing and pipelines	3
7	KOGE12203	Surface Production Operation	
8	KOGE12403	Corrosion & Wear	3
Offshore Engineering			
9	KOGE12603	Offshore Engineering	3
10	KOGE12803	Offshore Structural Engineering	3
Deepwater Engineering			
11	KOGE13003	Deep Water Well Control	3
12	KOGE13203	Deep Water Technology	3
13	KOGE13403	Deep water Production Assurance	3

ENTRY REQUIREMENT FOR COURSEWORK PROGRAMMES

Admission Requirement for Master's Degree:

- i. Bachelor Degree in the field of engineering or science with CPGA not less than 2.7. For those with CPGA less than 2.7, minimum three (3) years' experience in the related field is required and subjected to the approval from the Board of Study of the master program.
- ii. For Degree acquired outside of Malaysia, it must be recognized by the Senate of Universiti Malaysia Sabah and the qualification should be equivalent to the criteria stated in item (i).