



FACULTY OF CHEMICAL ENGINEERING
Bachelor of Engineering (Hons.) Oil and Gas (EH223)
STUDY PLAN (Pelan ID 3698)

SEM	CODE	COURSE NAME	PRE-REQ	CT HOUR	K	T	M
1	CTU551	Tamadun Islam dan Asia		2	2	-	-
	KKR 1	Co curriculum I		1	1	-	-
	MAT435	Calculus For Engineers		3	3	1	-
	CHE414	Engineering Drawing		2	-	-	4
	CPE435	Process Chemistry		3	3	1	-
	CHE493	Fluid Mechanics		3	3	1	-
	CHE433	Thermodynamics		3	3	1	-
JUMLAH				17	15	4	4
2	MEC410	Basic Mechanics		3	3	1	-
	CPE535	Electrical Technology		3	3	1	-
	KKR2	Co-Curriculum II		1	1	-	-
	CHE495	Hydrocarbon Chemistry		3	3	1	-
	CPE471	Materials and Energy Balance		4	3	2	-
	CGE476	Oil and Gas Laboratory I		1	-	-	3
	MAT455	Further Calculus for Engineers		3	3	1	-
TOTAL				18	16	6	3
3	BKE1	Third Language I		2	2	-	-
	BEL422	Report Writing		2	2	-	-
		Co-Curriculum III		1	1	-	-
	CHE515	Instrumental Chemistry for Engineers		3	2	-	3
	CHE463	Heat Transfer		3	3	1	-
	CHE542	Mass Transfer and Unit Operations		3	3	1	-
	CGE526	Petroleum Geology		3	3	1	-
	MAT565	Advanced Differential Equations		3	3	1	-
TOTAL				20	19	4	3
4	BKE2	Third Language II		2	2	-	-
	BEL499	Communication and Interpersonal Skills		2	2	-	-
	CTU553	Ethnic Relations		2	2	-	-
	CGE576	Drilling Engineering		3	3	1	-
	MEC411	Mechanics of Materials	MEC410	3	3	1	-
	CHE555	Numerical Methods and Optimisation	MAT485	3	3	1	-
	CGE566	Reservoir Engineering	CGE526	3	3	1	-
	CGE557	Oil and Gas Laboratory II		1	-	-	3
TOTAL				19	18	4	3
5	CGE610	Economics and Geopolitics of Oil and Gas		3	3	1	-
	CPE615	Process Safety		3	3	1	-
	CGE612	Oil and Gas Laboratory III		1	-	-	3
	ENT600	Technopreneurship		3	3	-	-
	BKE3	Third Language III		2	2	-	-
		Specialization Course I		3	3	-	-
TOTAL				15	14	2	3

SEM	CODE	COURSE NAME	PRE-REQ	CT HOUR	K	T	M
6	CGE654	Well Completion		3	3	1	-
	CGE664	Platform, Pipeline & Subsea (Facilities Engineering)		3	3	1	-
	CHE642	Process Control and Instrumentation		4	3	1	3
	CHE680	Leadership And Professional Ethics For Engineers		3	3	-	-
	CHE620	Project Management		3	3	1	-
	CGE674	Formation Evaluation	CGE574	3	3	1	-
	TOTAL				19	18	5
CHE690 Industrial Training				5			
7	CGE680	Final Year Project I		4	-	-	-
	CGE670	Materials Aspect for Oil and Gas		3	3	1	-
	CGE600	Reliability Engineering		3	3	1	-
		Specialization Course II		3	3	-	-
	TOTAL				13	9	2
8	CGE690	Final Year Project II		4	-	-	-
		Specialization Course III		3	3	-	-
		Specialization Course IV		3	3	-	-
	CGE655	Sustainable Development		3	3	1	-
	TOTAL				13	9	1
OVERALL TOTAL				139	118	28	19

SPECIALIZATION COURSES							
SEM	CODE	COURSE	PRE-REQ	CT HOUR	Contact hour		
					K	T	M
PETROLEUM ENGINEERING							
5	CGE616	Enhanced Oil Recovery		3	3	-	-
7	CGE626	Reservoir Characterisation	CGE564	3	3	-	-
8	CGE676	Non-conventional Fuels		3	3	-	-
8	CGE686	Pollution Control and Waste Management		3	3	-	-
GAS ENGINEERING							
5	CGE617	Process Plant Design		3	3	-	-
7	CGE667	Gas Process Engineering		3	3	-	-
8	CGE657	Gas Field Development Strategies		3	3	-	-
8	CGE687	Gas Transmission and Distribution		3	3	-	-
EXPLORATION ENGINEERING							
5	CGE618	GIS		3	3	-	-
7	CGE688	Signals and Systems		3	3	1	-
8	CGE658	Seismography		3	3	-	-
8	CGE668	Future Trends in Exploration Engineering		3	3	-	-

CT = Credit
K = Lecture
T = Tutorial
M = Laboratory