DEGREE OF MASTER OF ENGINEERING IN PETROLEUM ENGINEERING (07H85054)

Students must also comply with the University General Regulations and the Supplementary Regulations for the Degree of Master of Engineering

All the courses listed below are prescribed for this degree

PROGRAMME YEAR 1 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
PD 1001	Professional Skills Part 1	0	CM 1513	Chemistry for the Physical Sciences 2	15
EG 1008	Principles of Electronics	15			
EG 1010	CAD and Communications in Engineering Practice	15	EG 1504	Engineering Mathematics 1	15
EG 1012	Fundamentals of Engineering Materials	15	EG 1510	Fundamental Engineering Mechanics	15
Plus 30 credit points from courses of choice.					

PROGRAMME YEAR 2 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 2004	Fluid Mechanics and Thermodynamics	15	EA 2502	Solids and Structures	15
EG 2011	Process Engineering	15	EG 2501	Design and Computing in Engineering Practice	15
EG 2012	Engineering Mathematics 2	15	EG 2503	Electrical and Mechanical Systems	15
Plus 15 credit points from level 1 or 2 first half-session courses			GL 2512	Introduction to Geology for Petroleum Engineers	15

PROGRAMME YEAR 3 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 3007	Engineering Analysis and Methods 1	15	EG 3599	Project & Safety Management	10
EM 3019	Fluid Mechanics	15	EP 3595	Drilling and Well Engineering	15
EX 3030	Heat, Mass and Momentum Transfer	15	EP 3596	Reservoir Engineering I: Fundamentals	15
GL 3029	Petroleum Geology and Reservoir Characterisation	15	EP 3597	Petroleum Engineering Design	10
			EP 3598	Well Testing	10

PROGRAMME YEAR 4 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit points**	**Course Code**	**Course Title**	**Credit points**
EG 4013	MEng Individual Project				45
EP 4015	Geomechanics	10	EP 4531	Field Development and Petroleum Economics	15
EP 4018	Petroleum Production Engineering and Technology	10			
EP 4019	Reservoir Engineering II: Performance	10			
Plus 30 credit points from level 3 or 4 courses of choice.					

PLEASE SEE OVER →

PROGRAMME YEAR 5 – 120 Credit Points					
First Half-Session			Second Half-Session		
Course Code	**Course Title**	**Credit Points**	**Course Code**	**Course Title**	**Credit Points**
EG 501P	Non-Conventional Hydrocarbon Engineering	15	EG 552B	Reservoir Simulation	15
EG 501W	The Engineer in Society	15	EG 5565	MEng Group Design	30
EG 5099	Upstream Oil and Gas Processing	15			
Plus one of the two options below			EG 552C	Enhanced Oil Recovery	15
EG 501S	Numerical Simulation of Waves	15			
EG 501V	Computational Fluid Dynamics	15			

Notes	
1.	This programme is accredited by the IMechE and EI as fully satisfying the educational base for a Chartered Engineer (CEng)
2.	All course choices at Level 2 and above are subject to students holding the appropriate pre-requisites.
3.	Candidates seeking entry to the Junior Honours programme must have accumulated, by award or recognition, or been exempted from, at least 225 credit points at levels 1 and 2, including those compulsory courses required to enter programme year 3. If missing one compulsory course which is a pre requisite course for level 3, Head of School approval will be required to progress into Junior Honours, if approval is not granted students would progress onto programme year 3 on the BScEng degree programme. Students will also be expected to meet the standards required for MEng as publicised in the Student Handbook.