

## 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 1002	Getting Started at the University of Aberdeen	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 15 credit points from courses of choice at Levels 1 or 2			Plus 15 credit points from courses of choice at Levels 1 or 2		

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 courses of choice at Levels 1 or 2			EP 2501	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 1A	15	EG 3599	Project and 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
EP 3001	Petroleum Geology and Reservoir Characterisation	15	EP 3597	Petroleum Engineering Design	10
			EP 3598	Well Testing	10

**PLEASE SEE OVER →**

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 (see Note 4)				45
EP 4015	Geomechanics	10	Plus 30 credit points from courses of choice at Levels 3 and 4		
EP 4018	Petroleum Production Engineering and Technology	10			
EP 4019	Reservoir Engineering II: Performance	10			
EP 4031	Field Development and Petroleum Economics	15			
<b>OR</b>					
EP 4015	Geomechanics	10	EG 4513	Individual Project Abroad (MEng)	60
EP 4018	Petroleum Production Engineering and Technology	10			
EP 4019	Reservoir Engineering II: Performance	10			
EP 4031	Field Development and Petroleum Economics	15			
Plus 15 credit points from courses of choice at Levels 3 and 4					

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 504K	Carbon capture, Utilisation and Storage (CCUS)	15	EG 5562	Facilities Engineering	15
EG 501W	The Engineer in Society	15	EG 5565	MEng Group Design	30
EG 502G	Reservoir Simulation	15			
<b>Plus one of the three options below</b>			EG 552C	Enhanced Oil Recovery	15
EG 501S	Numerical Simulation of Waves	15			
EG 501V	Computational Fluid Dynamics	15			
EG 50R2	Well Plugging and Abandonment	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 (Programme Year 3) must have accumulated, by award or recognition, or been exempted from, at least 240 credit points at Levels 1 and 2, including all courses prescribed for this degree programme. Candidates who do not meet this progression requirement but who do meet the requirements for progression to Programme Year 3 of the DEGREE OF BACHELOR OF SCIENCE IN ENGINEERING (PETROLEUM) may transfer to this programme with a view to transferring back to an honours programme for the commencement of Programme Year 4.  Candidates seeking to progress on, or transfer to, the MEng programme will, in addition to meeting the credit requirements set out in the General and Supplementary Regulations, be expected to meet the MEng GPA requirements as publicised in the School of Engineering Undergraduate Student Handbook.
4.	EG4013 will commence in 1 <sup>st</sup> Half-Session and credits will be awarded at the 2 <sup>nd</sup> Half-Session examination diet. It is an expectation that candidates allocate the equivalent of 15 credit points of effort to EG4013 during the 1 <sup>st</sup> Half-Session and 30 credit points of effort during the 2 <sup>nd</sup> Half-Session.