

PETROLEUM ENGINEERING (English program 4+0)

From Intake 2014 onwards

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
Pre	1	K n ng m m	Soft Skills	2
Pre	2	Giáo d c th ch t 1	Physical Training 1	0
Total Credits				2

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
1	1	Anh v n 1	English 1	2
1	2	Anh v n 2	English 2	2
Total Credits				4

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
2	1	Anh v n 3	English 3	2
2	2	Anh v n 4	English 4	2
Total Credits				4

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
3	1	Giáo d c th ch t 2	Physical Training 2	0
3	2	Gi i tích 1	Calculus 1	4
3	3	i s	Linear Algebra	3
3	4	V t lý 1	General Physics 1	4
3	5	Thí nghi m v t lý	Physics Experiment	1
3	6	Nh p môn k thu t	Introduction to Engineering	3
3	7	a ch t c s	Fundamental Geology	3
3	8	Hóa h c i c ng	Fundamental Chemistry	3
Total Credits				21

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
4	1	Giáo d c th ch t 3	Physical Training 3	0
4	2	Giáo d c qu c phòng (LT)	Military Training A	0
4	3	Giáo d c qu c phòng (TH)	Military Training B	0
4	4	Gi i tích 2	Calculus 2	4
4	5	V t lý 2	General Physics 2	4
4	6	C s k thu t d u khí	Introduction to petroleum engineering	3
4	7	Th ct p a ch t c s	Fundamental Geology Practice	1
4	8	Tinh th khoáng v t th ch h c	Crystallography, Minerallography & Petrography	3

4	9	TT- tinh th khoáng v t th ch h c	Practicing of Crystallography, Minerallography & Petrography	1
4	10	Nh p môn v l p trình	Introduction to Information Technology	
Total Credits				16

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
5	1	Xác xu t th ng kê	Probability and Statistics	3
5	2	Quá trình & thi t b công ngh 1	Process Engineering I	3
5	3	C s th y a c h c	Fundamental of Hydro-mechanics	2
5	4	Nhi t ng l ch c k thu t	Engineering Thermodynamics	2
5	5	C l u ch t	Fluid Mechanics	2
5	6	Thí nghi m c l u ch t	Fluid Mechanics Experiment	1
5	7	a v t lý i c ng	Petroleum Geophysics	3
5	8	a ch t d u khí	Petroleum Geology	3
5	9	Tính toán ng d ng trong k thu t D u khí	Applied Computing in Petroleum Engineering	2
Total Credits				21

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
6	1	Ph ng pháp tính	Numerical method	3
6	2	Công ngh khoan d u khí	Drilling Engineering	3
6	3	Th c t p khoan	Drilling Practice	1
6	4	Tr m tích h c & nh p a t ng	Sedimentology & Sequences Stratigraphic	2
6	5	C h c á	Petroleum Geomechanics	3
6	6	Công Ngh Khai Thác D u Khí	Petroleum Production Engineering	3
6	7	a v t lý gi ng khoan	Well Logging	3
6	8	a th ng kê	Petroleum Geostatistics	2
Total Credits				20

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
7	1	Mô hình hóa và phân tích h th ng	Nodal analysis	2
7	2	Thu gom, x lý, v n chuy n d u khí	Gathering, Transportation and processing in petroleum industry	2
7	3	a ch t môi tr ng	Enviromental geology	2
7	4	Nguyên lý c b n c a CN Mác-Lênin	Basic Principles Of Marxism – Leninism	5
7	5	1 môn t ch n (B ng A)	1 Elective course (Table A)	2
Total Credits				13

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
8	1	K thu t v a d u khí	Petroleum Reservoir Engineering	3
8	2	Ph ng pháp minh gi i tài li u a ch n	Seismic Data Interpretation Methods	3
8	3	a ch t bi n	Marine geology	2
8	4	ng l i cách m ng c a CSVN	Revolutionary policies of The Vietnam communist party	3
8	5	1 môn t ch n (B ng B)	1 Elective course (Table B)	2
8	6	1 môn t ch n (B ng C)	1 Elective course (Table C)	3
Total Credits				16

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
9	1	c tr ng hóa và xây d ng mô hình a ch t	Reservoir CharacteriSation & Modelling	2
9	2	án d u khí	Petroleum Engineering Honours Project	1
9	3	B o v môi tr ng trong công nghi p d u khí	Environmental conservation in petroleum industry	2
9	4	Công ngh x lý khí	Gas Conditioning and Processing	2
9	5	Mô ph ng v a d u khí	Reservoir simulation	2
9	6	T t ng H Chí Minh	HoChiMinh Ideology	2
9	7	c ng lu n v n t t nghi p	Thesis Proposal	0
9	8	1 môn t ch n (B ng D)	1 Elective course (Table D)	2
Total Credits				13

Sem.	No.	Subjects (Vietnamese)	Subjects (English)	Credit
10	1	Th ct pt t nghi p	Thesis internship	3
10	2	Lu n v n t t nghi p	Thesis	9
Total Credits				12

Total Credits of Major			142
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Note: Elective courses

No.	Subjects (Vietnamese)	Subjects (English)	Credit
Table A			
1	Ph ng pháp vi n thám	Remote sensing and GIS method	2
2	Kh o sát gi ng	Well Testing and Pressure Transient Analysis	2
Table B			
3	Qu n lý s n xu t cho k s	Project Management for Engineers	3
4	L p và phân tích d án cho k s	Project Planning and Analysis for Engineers	3

5	Quản lý dự án cho kỹ sư	Project Management for Engineers	3
Table C			
6	Hoàn thiện giếng và kích thích vỉa	Well Completion and stimulation	2
7	Dung dịch khoan và xi măng	Drilling Fluid and cementing	2
Table D			
8	Subjects (Vietnamese)	Decision Making Under Uncertainty	2
9	Môn t ch n: Quản lý m tích h p	Integrated reservoir management	2