

# **Petroleum Engineering**

**(Program Code: 081502)**

## **1. Program Objectives**

The educational aim of Petroleum Engineering specialty is to cultivate qualified personnel with advanced technology and engineering knowledge. To develop all-round morality, intellectuality and physical fitness, they can adapt to the needs of modern petroleum industrial development. They don't gain just the basic training on petroleum engineering, but also can be engaged in petroleum engineering design, operation and construction, production and management, scientific development and applied research etc. when they graduate from the university.

## **2. Program Requirements**

Graduates should acquire the following knowledge and capabilities.

- 1) Graduates will have solid foundation on math, physics, chemistry, mechanics and geology etc. They are able to use the basic Chinese to read Chinese books and magazines of their own specialty and have some skills such as listening, speaking, reading, writing and translation etc.
- 2) Graduates will grasp the basic theory and professional knowledge of engineering science required in their own specialty. They will possess preliminary capability to use basic applied theory and knowledge to go on oil and gas well drilling and recovering engineering design and oil and gas well development project design, to analyze and solve practical problems on petroleum engineering, and to make technological improvement, scientific development and applied research.
- 3) Graduates will have fairly strong experiment test, calculation and expression abilities and master document retrieval and other method to acquire scientific and technological information.
- 4) Graduates will have a better self-study and work adaptation capability, computer operation and application ability and innovative consciousness.
- 5) Graduates will have insight and ability to use systematic engineering ideas and modern operational knowledge to go on production and organizational management.

### 3. Graduation Requirements and Program Credits

Category		Course Credits	Credit Hours	Remarks
Compulsory courses	Theory studies	131	2104	Including 96 CHs of experiment and 8 (40) CHs of Computer lab
	Experiment	2.0	48	
	Practice	25.0	25 weeks	
Selective courses		15.0	240	
Graduation requirements	1. Students shall obtain the above required 173 credits together with 10 credits required in the Supplementary Program Scheme, and pass HSK-3 in order to graduate. 2. Those who meet the graduation requirements will be awarded a Bachelor of Engineering. 3. Thesis shall be written in English while an abstract in Chinese is also required.			

### 4. Curriculum

#### 1) Compulsory Courses

Course Code	Course Name	Credits	Credit Hours	Allocation of credit hours				Semesters/Credits										
				Lecture	Experiment	Computer lab	Practice	1 <sup>st</sup> year			2 <sup>nd</sup> year			3 <sup>rd</sup> year			4 <sup>th</sup> year	
								1	2	S1	3	4	S2	5	6	S3	7	8
2090199	Primary Oral Chinese (2-1)	4.0	64	64				4.0										
2090299	Primary Chinese reading (2-1)	4.0	64	64				4.0										
2092099	Moral Education and Law	1.0	16	16				1.0										
0711299	Computer Program Design	3.0	48	48			(16)	3.0										
2090199	Primary Oral Chinese（2-2）	4.0	64	64					4.0									
2090299	Primary Chinese reading (2-2）	4.0	64	64					4.0									
0711399	Computer Technology	1.0	24	24			(24)		1.0									
2090599	Intermediate Chinese（2-1）	4.0	64	64							4.0							



