

BASIC CYCLE

1st year

Chemistry I
Representation Systems
Mathematics I
Linear Algebra
General Knowledge I
Chemistry II
General IT
Mathematics II
Physics I
Learning Techniques

2nd year

Mechanical Design
Introduction to Programming
Mathematics III
Physics II
General Mechanics
Mathematics IV
Physics III
Statics

3rd year

Petroleum Organic Chemistry
Electrotechnics
Fluid Mechanics
Geology for Engineers
Physics IV
Electrical Machines and Installations
Thermodynamics
Drilling Engineering I
Rock Petrophysics and reservoir fluids properties
Numerical Methods
English I

*English level required

PROFESSIONAL CYCLE

4th year

Industrial Organization
Drilling II
Reservoir Engineering
Pressure-transient analysis
Field Practice I
Well logging
Petroleum geology
Enhanced oil recovery
Reservoir geophysics
Gas and Oil well completion and repair
Oil production
Economics for engineers

5th year

Occupational and Environmental Security
Oil and Gas Facilities
Field practice II
Oilfield development
Reservoir Simulation
General Knowledge II
Law for Engineers
Petroleum economics and industrialization
Natural Gas Derivatives
Work practice
General knowledge III
English III

Electives

Production Organization I
Systems Dynamics
Advanced Statistics
Research Techniques
Materials Testing
Geostatistics
Petroleum Engineering Supervised oil project
Petroleum Engineering Research project
International Economics
Business Finance