

Faculty of Engineering & Technology

Introduction to petroleum engineering

Information :

Course Code : PE 201

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Petroleum Engineering

Instructor Information :

Title	Name	Office hours
Lecturer	Mohsen Gad Elkarim Elnoby Mohamed	4

Area Of Study :

- Discuss the history of petroleum industry
- Review of technical achievements in petroleum industry
- Discuss the global-economy of the petroleum industry
- Discuss the modern exploration, production and processing operations of the petroleum industry

Description :

An overview of the petroleum industry: its history, its technical achievements, its role in the global-economy and its future prospects. A brief introduction to modern exploration, production and processing operations is included.

Course outcomes :

a.Knowledge and Understanding: :

1 -	Review the history of petroleum industry
2 -	Illustrate the modern exploration, production and processing operations of the petroleum industry
3 -	Illustrate technical achievements in petroleum industry.
4 -	Review the the global-economy of the petroleum industry.

b.Intellectual Skills: :

1 -	Compare between the exploration, production and processing operations of the petroleum industry
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c.Professional and Practical Skills: :

1 -	Prepare technical report.
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d.General and Transferable Skills: :

1 -	Effectively manage tasks, time, and resources.
2 -	Communicate effectively.

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Origin & Composition of Petroleum	4	4	0
Exploration for Oil & Gas	4	4	0

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Oil Wells Drilling & Completion	4	4	0
Petroleum Production & Process Facilities	4	4	0
Oil Transportation & Refining	4	4	0
Reservoir Recovery Stages	6	6	0
Global Petroleum Overview	4	4	0

Teaching And Learning Methodologies :

Interactive Lecturing

Discussion

Problem-based Learning

Research

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	5.00		
Final exam	40.00		
Mid- Exam	25.00		
Oral Exam	5.00		
Quizzes	25.00		

Recommended books :

Frank J., Mark C. and Mark G.: Hydrocarbon Exploration and Production, Elsevier Publishing, 2008