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	3

Area Of Study :

The course introduce the students to the various disciplines of petroleum engineering. Those disciplines include exploration, petroleum geology, drilling, reservoir engineering, and production technology. It also provides an overview of the origin of oil and gas

Description :

The course's main goal is to provide the student with 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 -	To get acquainted with the various petroleum engineering disciplines .
2 -	To be familiar with the exploration techniques.
3 -	To understand the rock properties and fluid properties of the reservoir.
b.Intellectual Skills: :	
1 -	to use simple data and information related to course contents.
2 -	To apply various basic geological and engineering concepts to problem solving
c.Professional and Practical Skills: :	
1 -	To investigate and analyze geological information from different sources
2 -	To be able to solve problems related to production and drilling engineering.
d.General and Transferable Skills: :	
1 -	Ability to work in team
2 -	Ability to interpret available different types of production and geological data
3 -	Report writing skills and presentation skills

Course Topic And Contents :

Topic	No. of hours	Lecture	Tutorial / Practical
Introduction	2	Introduction	
Petroleum geology	4	Petroleum Engineering Disciplines	Discussion of Assignments and weekly work sheets
Exploration tools	2	. As above	. As above
Drilling and completion	6	. As above	. As above
Reservoir engineering	6	. As above	. As above
Production techniques	6	. As above	. As above

Teaching And Learning Methodologies :

- Weekly oral lectures using white board
- PowerPoint presentations and data show with handouts
- Short duration video tapes

Course Assessment :

Methods of assessment	Relative weight %	Week No	Assess What
Final exam	40.00	15	
Quizzes	10.00	5	
Reports and special assignments	10.00	10	
Weekly tutorials and attendance	10.00	1	

Course Notes :

Available on pdf files