

**Faculty of Engineering & Technology**

**Humanities/Social Science Elective**

**Information :**

**Course Code :** HUM HX

**Level :** Undergraduate

**Course Hours :** 2.00- Hours

**Department :** Department of Petroleum Engineering

**Instructor Information :**

Title	Name	Office hours
Lecturer	Alaa Mohamed Ali Ali	13
Teaching Assistant	AHMED NAGUIB ABDELAZIZ ABDELAZIZ GHONIM	

**Area Of Study :**

The Main Goals of this course are:

- Demonstrating the different types of petroleum agreements and companies and how to deal with different types of cost related to petroleum exploration, developments and production
- Discussing differences between successful efforts and full cost methods
- Identifying and accounting for mineral interests (i.e. royalty, working interest, overriding royalty interest, etc.)
- Discussing differences of DD&A rules under successful efforts and full cost
- Reviewing alternative methods of accounting for exploration and production companies

**Description :**

This course is designed to increase the understanding and conscious for student those who are studies in the oil and gas industry field. To identify and awareness with different types of accounting system applied. In oil and gas companies and its element, and different methods for its applications. Studies financial accounting, cost accounting, the nature of cost in the oil and gas field, accounting books, accounting principles, cost recovery, tools of cost control and concession agreements. To provide basic understanding and hands-on practice of the accounting concepts involved in Oil & Gas Accounting on an international basis. To understand the accounting behind the financial statements and how accounting entries roll in the financial statements. Explain the different types of petroleum contracts and agreements

**Course outcomes :**

**a. Knowledge and Understanding: :**

1 -	Explain different types of petroleum agreements and contracts
2 -	Distinguish between capital expenditures (CPEX) and operating expenditure (OPEX)
3 -	Describe basic Depreciation, Depletion & Amortization Formula

**b. Intellectual Skills: :**

1 -	Interpret different types of petroleum contracts and agreements applied between the host countries and international exploration companies and the main features of each types of this agreement
2 -	Estimate the main activities and main cost in each stage of petroleum activities (exploration . development . operating and production)
3 -	Estimate capital budget and operational budget for petroleum activities

**c. Professional and Practical Skills: :**

1 -	Estimate the cost of capital and operational budget and analysis the variance between estimated and actual cost
2 -	Re-allocate joint cost on joint products
3 -	Calculate the production cost per barrel for oil and cubic meter of gas

**d. General and Transferable Skills: :**

1 -	Communicate Effectively
-----	-------------------------

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
petroleum contracts and agreements	8	4	4
the basic of accounting principal	8	4	4
accounting for exploration companies	4	2	2
accounting for production companies	4	2	2
the destination between operating expanses ( opex ) and capital expanses ( capx )	4	2	2
A.F.E and estimated drilling cost	8	4	4
cost accounting in petroleum companies	8	4	4
accounting for Depreciation, Impairments, and Depletion	8	4	4
Budgeting ( capital budget- operational budget )	8	4	4

**Teaching And Learning Methodologies :**

Interactive Lecturing  
Discussion  
Problem solving

**Course Assessment :**

Methods of assessment	Relative weight %	Week No	Assess What
Assignment	10.00		
Final Exam	40.00		
Mid- Exam I	25.00		
Participation	10.00		
Quiz	15.00		

**Recommended books :**

Petroleum Accounting- Principles, Procedures & Issues -5th Edition- by Dennis R. Jennings (University of North Texas)

