

## Faculty of Engineering & Technology

### Graduation Project

#### Information :

**Course Code :** PE 507

**Level :** Undergraduate

**Course Hours :** 3.00- Hours

**Department :** Department of Petroleum Engineering

#### Instructor Information :

Title	Name	Office hours
Lecturer	Mohsen Gad Elkarim Elnoby Mohamed	
Assistant Lecturer	YOUSSEF ELSAYED ABDELHAFEZ KANDIEL	
Teaching Assistant	Marco Khair Mehani Hanna	
Teaching Assistant	Akram Rabie Hamed Ragheb Tobar	

#### Area Of Study :

- A-To familiarize the students with the industrial field data and how to use it in the Oil and gas field development.  
 B-Be able to select the appropriate petroleum engineering technique to evaluate and predict the future performance of the oil and gas field.  
 C- Use the engineering science in solving particular issues and problems in the oil and gas industry.

#### Description :

An engineering assignment requiring the student to demonstrate initiative and assume responsibility, Students can propose their own project, A project report is required at the end of the tenth semester

#### Course outcomes :

##### **a.Knowledge and Understanding: :**

1 -	Describe the use of petroleum engineering science to develop Oil or Gas field.
2 -	Describe the role of different petroleum engineering disciplines in evaluation of Oil or Gas field.
3 -	Differentiate between types and uses of different geological maps

##### **b.Intellectual Skills: :**

1 -	Select appropriate solutions for engineering problems based on analytical thinking and data collection.
2 -	Design a complete Drilling prognosis for a proposed well.
3 -	Analyse the Petrophysical Logs.
4 -	Calculate the Oil in place using Different methods
5 -	Construct the required Geological maps
6 -	Propose an appropriate development plan
7 -	Estimating the development plan feasibility and economics

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

1 -	Apply knowledge of mathematics, science, information technology, design, business context and engineering practice integrally to create proper project design.
2 -	Professionally merge the engineering knowledge, understanding, collected data and feedback to make the integration of project design.
3 -	Apply Practical Knowledge in final presentations.

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

1 -	Work in a team.
2 -	Share ideas and communicate with others
3 -	Deal with others according to the rules of professional ethics

**Course Topic And Contents :**

Topic	No. of hours	Lecture	Tutorial / Practical
Data Introduction and Familiarization			
Geological Mapping requirements			
Petrophysical Logging Analysis			
Drilling Engineering Requirements			
Reservoir Engineering Requirements			
Production Engineering Requirements			
Report Writing			
Presentation Skills			

**Teaching And Learning Methodologies :**

Discussion
Problem solving
Research

**Recommended books :**

All Petroleum Engineering References delivered previously by FUE.

**Periodicals :**

Onepetro
----------

**Web Sites :**

www.spe.org
-------------