

## 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
Professor	Abdulaziz Mohamed Abdulaziz Ali Ismail	
Professor	Ismail Shaaban Ismail Mahgoub	4
Lecturer	Mostafa Magdy El Sayed Abd El Hafiz	
Lecturer	Mohamed Ghareeb Moustafa Ahmed	2
Lecturer	Mohsen Gad Elkarim Elnoby Mohamed	
Lecturer	Omar Saad Ahmed Mahmoud	

#### Area Of Study :

- A-To familiarize 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
<b>c. Professional and Practical Skills :</b>	
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.
<b>d. General and Transferable Skills :</b>	
1 -	Ability to work in a team.
2 -	Ability to share ideas and communicate with others
3 -	Ability to deal with others according to the rules of professional ethics.

<b>Course Topic And Contents :</b>			
Topic	No. of hours	Lecture	Tutorial / Practical
Data Introduction and Familiarization	9	0	9
Geological Mapping requirements	9	0	9
Petrophysical Logging Analysis	9	0	9
Drilling Engineering Requirements	9	0	9
Reservoir Engineering Requirements	9	0	9
Production Engineering Requirements	9	0	9
Report Writing	9	0	9
Presentation Skills	9	0	9

<b>Teaching And Learning Methodologies :</b>
Class Discussion
Tutorials
Research

<b>Course Assessment :</b>			
Methods of assessment	Relative weight %	Week No	Assess What
Final Presentation and report	50.00		
Project preparation and weekly discussion with the project supervisor	50.00		

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**Recommended books :**

All Petroleum Engineering References delivered previously by FUE.

**Periodicals :**

Onepetro

**Web Sites :**

www.spe.org