

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 Analyise 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.Professio	onal 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 a	and Transferable Skills: :
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.

Course Topic And Contents :			
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

Teaching And Learning Methodologies:	
Class Discussion	
Tutorials	
Research	

Course Assessment :						
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					



Recommended books :	
All Petroleum Engineering References delivered previously by FUE.	
Periodicals:	
Onepetro	
Web Sites:	
www.spe.org	