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	

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.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.

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3 -	Apply Practical Knowledge in final presentations.
d.General 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

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Web Sites :
www.spe.org

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