FUTURE UNIVERSITY IN EGYPT
جامعة المستقبل

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 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.
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

Web Sites :

www.spe.org