

Faculty of Engineering & Technology

Humanities/Social Science Elective

Information :

Course Code : HUM HY

Level : Undergraduate

Course Hours : 2.00- Hours

Department : Department of Petroleum Engineering

Instructor Information :

Title	Name	Office hours
Associate Professor	Moataz Mohamed Adel EIShafeiy	2
Associate Professor	Moataz Mohamed Adel EIShafeiy	2
Teaching Assistant	Taha Abdelhamid Abdelmaqsoud Abdelhamid Yehia	
Teaching Assistant	Taha Abdelhamid Abdelmaqsoud Abdelhamid Yehia	

Area Of Study :

The Main Goals of this course are to familiarize students with the unique aspects of unconventional gas and oil reservoirs, including their economic significance, geologic occurrences, controls on production, drilling and completion practices, reservoir management, and present activity.

Course outcomes :

a. Knowledge and Understanding: :

1 -	Describe unique geological characteristics of unconventional resources and their technical, economic, political, and environmental constraints.
2 -	Illustrate the low-permeability sands and their drilling and completion methods.
3 -	Describe the Coalbed Gases and their occurrences, resources, reservoir characteristics, drilling and completion methods.
4 -	Describe the Heavy oil and their occurrences, resources, reservoir characteristics, drilling and completion methods.

b. Intellectual Skills: :

1 -	Apply principles of geo-mechanics to unconventional reservoirs.
2 -	Think in a creative way.

c. Professional and Practical Skills: :

1 -	Apply knowledge of mathematics, science, and engineering to compute the characteristics of unconventional resources, Coalbed Gases, low permeability sands and heavy oils.
-----	--

d. General and Transferable Skills: :

1 -	Collaborate effectively within multidisciplinary teams.
2 -	Acquire entrepreneurial skills.
3 -	Refer to relevant literature.

