Course Specifications

General Information

Course name	Petroleum Geology
Course number	GEOL4328
Faculty	
Department	
Course type	Major Needs
Course level	4
Credit hours (theoretical)	3
Credit hours (practical)	0
Course Prerequisites	

Course Objectives

1 - :Studying the following item
2 - Petroleum composition
3 - Petroleum migration
4 - Exploration and excavation
5 - Economic evaluation

Intended Learning Outcomes

Knowledge and Understanding

* The role of geology and its importance in the petroleum formation
* Knowledge gathering places of petroleum accumulation
* Economic interest

Course Contents

1 - Introduction to Petroleum geology - Origin of Petroleum – Petroleum migration – Traps and their classification – Siliciclastic and carbonate reservoirs – Drilling prospects and petrophysical analysis (well logging method) – Well logging interpretation – Distribution of petroleum around the world. Practical part Drawing maps that related to petroleum geology – Exercises about determination of porosity, permeability and water saturation – Determination of oil in places – Well logging data and their interpretation

Teaching and Learning Methods

1 - Explanation and discussion with presentation devices
2 - Exercises in Lab

Students Assessment

Assessment Method	TIME	MARKS
Final term exam	In seventh week	10
Second term exa	In eleventh week	10
Exercises and practical assignments	Lab	10
Final practical exam	In fourteenth week	20
First term exam	In sixteenth week	50

Books and References

Course note	Lecture notes
Essential books	Peter K. Link 1987. Basic Petroleum geology. OGCI Publication, USA
Recommended books	Richard C. Selley 1985. Elements of Petroleum Geology. Acadimic Press, USA