



## مواصفات مقرر: جيولوجيا البترول للمهندسين

### Course Specification of: Petroleum Geology for Engineers

المعلومات العامة عن المقرر General information about the course						
1.	اسم المقرر Course Title	جيولوجيا البترول للمهندسين Petroleum Geology for Engineers				
2.	رمز المقرر ورقمه Course Code and Number	PNGE 221				
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة Credit Hours			الإجمالي Total	
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial		تدريب Training
		2	1	-	-	3
4.	المستوى والفصل الدراسي Study Level and Semester	2 <sup>nd</sup> level, 1 <sup>st</sup> semester				
5.	المتطلبات السابقة للمقرر (إن وجدت) Pre-requisites (if any)	PNR 112, PNR 212				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)	-				
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	Bachelor of Petroleum and Natural Gas Engineering				
8.	لغة تدريس المقرر Language of teaching the course	English/Arabic				
9.	نظام الدراسة Study System	Academic year of two semesters				
10.	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources				
11.	اسم معد (و) مواصفات المقرر Prepared by	Assoc.Prof. Adel Al-Matary				
12.	تاريخ اعتماد مجلس الجامعة Date of Approval	2020				

وصف المقرر Course Description	
وصف المقرر بالإنجليزية	وصف المقرر بالعربية
<p>This is a basic course in petroleum geology. The students will be exposed to different source, reservoir and cap-rocks, characterization of reservoir rocks, classification of reservoir pore space,</p>	

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*permeability, migration and entrapment, temperature-pressure conditions for the generation of oil and gas from sediments.*

### مخرجات تعلم المقرر (CILOs) Course Intended Learning Outcomes

After completing the course, the student will be able to:		بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن:
a1.	Describe the nature of petroleum, and describe the chemical composition of liquid and gaseous petroleum.	- a1
a2.	Gain knowledge of how and why fluid hydrocarbons migrate from a source rock to reservoir rock, entrapment and accumulation of hydrocarbons.	- a2
b1.	Identify different source rocks from which hydrocarbons are generated.	-b1
b2.	Interpret maps and reservoir traps	- b2
c1.	Compute the analysis of well logs, cross-sections and correlation.	- c1
c2.	Do tectonic classification, stratigraphy evaluation and hydrocarbon accumulation of some Basin in Yemen	- c2
d1.	Collaborate effectively within a multidisciplinary team.	- d1
d2.	Acquire entrepreneurial skills to Prepare technical petroleum reports.	- d2

### مواءمة مخرجات تعلم المقرر مع مخرجات التعلم للبرنامج:

Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)

مخرجات التعلم المقصودة من المقرر (Course Intended Learning Outcomes)		مخرجات التعلم المقصودة من البرنامج (Program Intended Learning Outcomes) (تكتب جميع مخرجات البرنامج كما هي رمزا ونصا)	
a1	Describe the nature of petroleum, and describe the chemical composition of liquid and gaseous petroleum.	A1	
a2	Gain knowledge of how and why fluid hydrocarbons migrate from a source rock to reservoir rock, entrapment and accumulation of hydrocarbons.	A2	
b1	Identify different source rocks from which hydrocarbons are generated.	B2	
b2	Interpret maps and reservoir traps	B2	
c1	Compute the analysis of well logs, cross-sections and correlation.	C2	



<b>c2</b>	Do tectonic classification, stratigraphy evaluation and hydrocarbon accumulation of some Basin in Yemen	<b>C3</b>	
<b>d1</b>	Collaborate effectively within a multidisciplinary team.	<b>D1</b>	
<b>d2</b>	Acquire entrepreneurial skills to Prepare technical petroleum reports.	<b>D3</b>	

مواعمة مخرجات التعلم باستراتيجيات التعليم والتعلم والتقييم Alignment of CILOs to Teaching and Assessment Strategies			
أولاً: مواعمة مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التعليم والتعلم والتقييم: First: Alignment of Knowledge and Understanding CILOs			
مخرجات المقرر/ المعرفة والفهم Knowledge and Understanding CILOs		استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
<b>a1 -</b>	Describe the nature of petroleum, and describe the chemical composition of liquid and gaseous petroleum.	Interactive Lectures Discussion	Examinations, Assignments, Oral presentations
<b>a2 -</b>	Gain knowledge of how and why fluid hydrocarbons migrate from a source rock to reservoir rock, entrapment and accumulation of hydrocarbons.		
ثانياً: مواعمة مخرجات تعلم المقرر (المهارات الذهنية) باستراتيجية التدريس والتقييم: Second: Alignment of Intellectual Skills CILOs			
مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs		استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
<b>b1 -</b>	Identify different source rocks from which hydrocarbons are generated.	Discussion Demonstration Brain storm Problem solving	Essay test, Assignments, Oral presentations.
<b>b2 -</b>	Interpret maps and reservoir traps		
ثالثاً: مواعمة مخرجات تعلم المقرر (المهارات المهنية والعملية) باستراتيجية التدريس والتقييم: Third: Alignment of Professional and Practical Skills CILOs			
مخرجات المقرر/ المهارات المهنية والعملية Professional and Practical Skills CILOs		استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
<b>c1-</b>	Compute the analysis of well logs, cross-sections and correlation.	Tutorials & practical classes, case study, Computer based teaching	Achievement tests Chart Drawing practical exams
<b>c2-</b>	Do tectonic classification, stratigraphy evaluation and hydrocarbon accumulation of some Basin in Yemen		



رابعاً: موازنة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقييم:

Fourth: Alignment of Transferable (General) Skills CILOs

مخرجات المقرر Transferable (General) Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقييم Assessment Strategies
d1- Collaborate effectively within a multidisciplinary team.	Small group working Student-led Seminars	Achievement tests Team working
d2- Acquire entrepreneurial skills to Prepare technical petroleum reports.	Case Study Method	

محتوى المقرر Course Content

Theoretical Aspect موضوعات الجانب النظري

الرقم Order	الموضوعات الرئيسية/ الوحدات Topic List / Units	الموضوعات الفرعية Sub Topics List	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم للمقرر (CILOs)
1	The History and Nature of Petroleum	First use Petroleum products demand	1	2	a1 a2
2	Occurrence and origin of petroleum	Organic theories Inorganic theories	1	2	a1 a2
3	Chemical Composition of Petroleum,	Properties of Liquid Petroleum; Gaseous Petroleum (natural gas), and Gas Law	1	2	a1 a2 c2.1
4	Petroleum System	Requirements for Commercial Oil Accumulations	1	2	a1 a2 b2.1
5	Source rock	-Organic matter type -Kerogen types -Evaluation methods	2	4	a1 a2
	Reservoir rock	-Basic Rock Properties -Porosity, and Permeability (Darcy's Law)	2	4	a2 b2.1 b2.2 c2.2 d3
	Reservoir pore spaces	-Reservoir contents of Fluids and Gas (Saturation) -Dimensional Analysis of Permeability, --Dimensional Analysis of Fluid Viscosity	2	4	a2 b2.1 b2.2 c2.2 d3
	Subsurface Environments	Subsurface water Subsurface pressures	1	2	a1



		Subsurface temperature			
	<b>Entrapments</b>	Traps types	1	2	a2 b2.1 c2.2
	<b>Petroleum Exploration Methods</b>	Gravity and Seismic methods overview	1	2	a2 c2.1 c2.2 d3
	Rig Components	Rig systems	1	2	a1, a2, c1, c2
عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester			<b>14</b>	<b>28</b>	

الموضوعات العملية (إن وجدت) Practical Aspect (if any)				
الرقم Order	التجارب العملية/ التمارين / تدريبات Practical / Exercises/ Tutorials topics	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم Course ILOs
1	LAB 1: PETROLEUM INORGANIC ORIGIN	1	2	a1,b1,c1
2	LAB2: GEOCHEMISTRY AND OIL CHARACTERIZATION	1	2	b1,c2
3	LAB 3: CLASSIFICATION OF CRUDE OILS	1	2	b1,c1
4	LAB 4: SOURCE ROCK EVALUATIONS	1	2	a2,c2
5	LAB 5: USE OF BORE-HOLE LOGS IN IDENTIFYING PETROLEUM SOURCE ROCKS	1	2	b2,c1
6	LAB 6: OIL MIGRATION	1	2	a2,b2
7	LAB 7: RESERVOIR MAPPING	1	2	b1,b2,c2
8	LAB 8: RESERVOIR PROPERTIES AND RESERVE ESTIMATE	1	2	b1,b2,c1,c2
9	LAB 9: DEPTH MAP OF THE RESERVOIR	1	2	b1,b2,c1,c2
10	LAB 10: SUBSURFACE CROSS SECTION	2	4	b1,b2,c1,c2
11	LAB 11: Correlation of Intertonguing Deposits	2	4	b1,b2,c1,c2
اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester		<b>13</b>	<b>26</b>	

استراتيجيات التعليم والتعلم Teaching Strategies
<ul style="list-style-type: none"> <li>▪ Interactive Lectures</li> <li>▪ Discussion</li> <li>▪ Demonstration</li> <li>▪ Brain storm</li> <li>▪ Problem solving</li> <li>▪ Computer based teaching</li> <li>▪ Small group working</li> <li>▪ Student-led Seminars</li> </ul>

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Case study

Tasks and Assignments الأنشطة والتكليفات

م No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردى/ تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due	مخرجات التعلم CILOs (symbols)
1	n/a				
Total Score إجمالي الدرجة					

Learning Assessment تقييم التعلم

الرقم No.	أنشطة التقييم Assessment Tasks	أسبوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)
1	Lab Exercises	Weekly	20	13.4%	b1, b2,c1,c2
2	Participation	Weekly	10	6.7%	a1,a2,c1,c2,d1
3	Quizzes	End of a	10	6.7%	a1,a2,b1,b2,
4	Mid-Term written exam	Week 7	20	13.3%	a1,a2,b1,b2,
5	Final lab Exam	Week 7	20	13.3%	b1,b2,c1,c2,d1
6	Final Exam (theoretical)	Week 16	70	46.6%	all
Total الإجمالي			150	100.00%	

Learning Resources مصادر التعلم

Required Textbook(s) المراجع الرئيسية (لا تزيد عن مرجعين)

1. Saied, M; Al-Matary, A; Gashan, M. (2015) The Black Gold, Origin, occurrence and geochemistry of Petroleum. AlMajd Publications, Sana'a, Yemen.
2. Richard C. Selley, (2015) Elements of Petroleum Geology. 3<sup>rd</sup>. Edition Elsevier Academic Press, 520p.

Essential References المراجع المساندة

- 1- *Geology of Petroleum*, A·l· Levorsen, 2<sup>nd</sup> Edition· CBS, Publishers, 2006·2- Amyx, J· W·, Bass,·
- 2- *Unconventional Petroleum Geology*, Caineng Zou et al·, Elsevier, 2013·

Electronic Materials and Web Sites etc. المصادر الإلكترونية ومواقع الإنترنت

- [www.spe.com](http://www.spe.com)  
<http://link.springer.com>  
<http://www.sciencedirect.com>



## Course Policies:

<b>1</b>	<b>Class Attendance:</b> <ul style="list-style-type: none"> <li>- Students are expected to attend classes regularly and promptly.</li> <li>- The attendance should not be less than 80%.</li> <li>- If the student has been absent, he is responsible for finding out any missed material by consulting other students or going to the professor's office hours.</li> </ul>
<b>2</b>	<b>Tardy:</b> <ul style="list-style-type: none"> <li>- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.</li> </ul>
<b>3</b>	<b>Exam Attendance/Punctuality:</b> <ul style="list-style-type: none"> <li>- According to the rules the student gets absent in the exam of the course.</li> </ul>
<b>4</b>	<b>Assignments &amp; Projects:</b> <ul style="list-style-type: none"> <li>- Papers survey or projects should be submitted by the time detriment by the professor.</li> </ul>
<b>5</b>	<b>Cheating:</b> <ul style="list-style-type: none"> <li>- According to the rules, cheating is a serious offense and will always result in an imposition of a penalty. The penalties that can be started from the range of canceling the result of the course to canceling the student's admission.</li> </ul>
<b>6</b>	<b>Plagiarism:</b> <ul style="list-style-type: none"> <li>-Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties that can be started by making a zero mark for the work.</li> </ul>
<b>7</b>	<b>Other policies:</b> <ul style="list-style-type: none"> <li>-The student should by a commitment by the rules inside class and university. Therefore, he is expected to show respect for his classmate, instructors &amp; others.</li> </ul>

قسم/ برنامج: هندسة النفط والغاز الطبيعي

العام الجامعي: 2019-2020م

## خطة مقرر: جيولوجيا البترول للمهندسين

### Course Plan (Syllabus): Petroleum Geology for Engineers

معلومات عن أستاذ المقرر						
الاسم Name	Assoc.Prof. Adel Al-Matary		الساعات المكتبية (أسبوعياً) Office Hours			
المكان ورقم الهاتف Location & Telephone No.	770770769		السبت SAT	الأحد SUN	الاثنين MON	الثلاثاء TUE
البريد الإلكتروني E-mail	a.almatary@su.edu.ye					الأربعاء WED
						الخميس THU

معلومات عامة عن المقرر						
1.	اسم المقرر Course Title	جيولوجيا البترول للمهندسين Petroleum Geology for Engineers				
2.	رمز المقرر ورقمه Course Code and Number	PNGE 221				
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة Credit Hours			الإجمالي Total	
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial		تدريب Training
		2	1	-	-	3
4.	المستوى والفصل الدراسي Study Level and Semester	2 <sup>nd</sup> level, 1 <sup>st</sup> semester				
5.	المتطلبات السابقة للمقرر Pre-requisites	PNR 112, PNR 212				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisite	-				
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	Bachelor of Petroleum and Natural Gas Engineering				
8.	لغة تدريس المقرر Language of teaching the course	English/Arabic				
9.	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources				

وصف المقرر	
<p>This is a basic course in petroleum geology. The students will be exposed to different source, reservoir and cap-rocks, characterization of reservoir rocks, classification of reservoir pore space, permeability, migration and entrapment, temperature-pressure conditions for the generation of oil and gas from sediments.</p>	





## Course Intended Learning Outcomes (CILOs) مخرجات تعلم المقرر

After completing the course, the student will be able to:	بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن:
a1. Describe the nature of petroleum, and describe the chemical composition of liquid and gaseous petroleum.	- a1
a2. Gain knowledge of how and why fluid hydrocarbons migrate from a source rock to reservoir rock, entrapment and accumulation of hydrocarbons.	- a2
b1. Identify different source rocks from which hydrocarbons are generated.	-b1
b2. Interpret maps and reservoir traps	- b2
c1. Compute the analysis of well logs, cross-sections and correlation.	- c1
c2. Do tectonic classification, stratigraphy evaluation and hydrocarbon accumulation of some Basin in Yemen	- c2
d1. Collaborate effectively within a multidisciplinary team.	- d1
d2. Acquire entrepreneurial skills to Prepare technical petroleum reports.	- d2

## Course Content محتوى المقرر

خطة تنفيذ الموضوعات النظرية Theoretical Aspect				
الرقم Order	الوحدات (الموضوعات الرئيسية) Units	الموضوعات التفصيلية Sub Topics	الأسبوع Week Due	الساعات الفعلية Con. H
1	<b>The History and Nature of Petroleum</b>	First use Petroleum products demand	1	2
	<b>Occurrence and origin of petroleum</b>	Organic theories Inorganic theories	1	2
	<b>Chemical Composition of Petroleum,</b>	Properties of Liquid Petroleum; Gaseous Petroleum (natural gas), and Gas Law	1	2
	<b>Petroleum System</b>	Requirements for Commercial Oil Accumulations	1	2
	<b>Source rock</b>	-Organic matter type -Kerogen types -Evaluation methods	2	4
	<b>Midterm Exam</b>		1	2

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<b>Reservoir rock</b>	-Basic Rock Properties -Porosity, and Permeability (Darcy's Law)	2	4
<b>Reservoir pore spaces</b>	-Reservoir contents of Fluids and Gas (Saturation) -Dimensional Analysis of Permeability, --Dimensional Analysis of Fluid Viscosity	2	4
<b>Subsurface Environments</b>	Subsurface water Subsurface pressures Subsurface temperature	1	2
<b>Entrapments</b>	Traps types	1	2
<b>Petroleum Exploration Methods</b>	Gravity and Seismic methods overview	1	2
<b>Rig Components</b>	Rig systems	1	2
<b>Final Exam</b>		1	2
<b>عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester</b>		<b>16</b>	<b>32</b>

<b>Practical / Training/ Tutorials/ Exercises Aspects خطة تنفيذ موضوعات الجانب العملي</b>			
الرقم Order	موضوعات العملي/ المهام / التمارين Practical/ Tutorials/ Exercises Aspects	الأسبوع Week Due	الساعات الفعلية Cont. H
1	LAB 1: PETROLEUM INORGANIC ORIGIN	1	2
2	LAB2: GEOCHEMISTRY AND OIL CHARACTERIZATION	1	2
3	LAB 3: CLASSIFICATION OF CRUDE OILS	1	2
4	LAB 4: SOURCE ROCK EVALUATIONS	1	2
5	LAB 5: USE OF BORE-HOLE LOGS IN IDENTIFYING PETROLEUM SOURCE ROCKS	1	2
6	LAB 6: OIL MIGRATION	1	2
7	Mid-lab exam	1	2
8	LAB 7: RESERVOIR MAPPING	1	2
9	LAB 8: RESERVOIR PROPERTIES AND RESERVE ESTIMATE	1	2
10	LAB 9: DEPTH MAP OF THE RESERVOIR	1	2
11	LAB 10: SUBSURFACE CROSS SECTION	2	4
12	LAB 11: Correlation of Intertonguing Deposits	2	4
13	Final lab exam	1	2
<b>اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester</b>		<b>15</b>	<b>30</b>

<b>Teaching Strategies استراتيجيات التعليم والتعلم</b>
<ul style="list-style-type: none"> <li>▪ <b>Interactive Lectures</b></li> <li>▪ <b>Discussion</b></li> </ul>

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- Demonstration
- Brain storm
- Problem solving
- Case study,
- Computer based teaching
- Small group working
- Student-led Seminars

### Tasks and Assignments الأنشطة والتكليفات

م No	التكليف/ الواجب Assignments	نوع التكليف (فردى/ تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due
1	n/a			
Total Score إجمالي الدرجة			15/150 10/ 100	

### Learning Assessment تقويم التعلم

م No	أساليب التقويم Assessment Method	موعد (أسبوع) التقويم Week Due	الدرجة Mark	الوزن النسبي % Proportion of Final Assessment
1	Lab Exercises	Weekly	20	13.4%
2	Participation	Weekly	10	6.7%
3	Quizzes	End of a topic	10	6.7%
4	Mid-Term written exam	Week 7	20	13.3%
5	Final lab Exam	Week 7	20	13.3%
6	Final Exam (theoretical)	Week 16	70	46.6%
Total المجموع			150	100.00%

### Learning Resources مصادر التعلم

#### Required Textbook(s) المراجع الرئيسية (لا تزيد عن مرجعين)

1. Saied, M; Al-Matary, A; Gashan, M. (2015) The Black Gold, Origin, occurrence and geochemistry of Petroleum. AlMajd Publications, Sana'a, Yemen.
2. Richard C. Selley, (2015) **Elements of Petroleum Geology**. 3<sup>rd</sup>. Edition Elsevier Academic Press, 520p.

#### Essential References المراجع المساندة

- 1- *Geology of Petroleum, A·l· Levorsen, 2<sup>nd</sup> Edition· CBS, Publishers, 2006·*
- 2- *Amyx, J. W., Bass,·*
- 2- *Unconventional Petroleum Geology, Caineng Zou et al., Elsevier, 2013·*

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المصادر الإلكترونية ومواقع الإنترنت *etc.* Electronic Materials and Web Sites

[www.spe.com](http://www.spe.com)

<http://link.springer.com>

<http://www.sciencedirect.com>

**Course Policies:**

<b>1</b>	<p><b>Class Attendance:</b></p> <ul style="list-style-type: none"> <li>- Students are expected to attend classes regularly and promptly.</li> <li>- The attendance should not be less than 80%.</li> <li>- If the student has been absent, he is responsible for finding out any missed material by consulting other students or going to the professor's office hours.</li> </ul>
<b>2</b>	<p><b>Tardy:</b></p> <ul style="list-style-type: none"> <li>- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.</li> </ul>
<b>3</b>	<p><b>Exam Attendance/Punctuality:</b></p> <ul style="list-style-type: none"> <li>- According to the rules the student gets absent in the exam of the course.</li> </ul>
<b>4</b>	<p><b>Assignments &amp; Projects:</b></p> <ul style="list-style-type: none"> <li>- Papers survey or projects should be submitted by the time detriment by the professor.</li> </ul>
<b>5</b>	<p><b>Cheating:</b></p> <ul style="list-style-type: none"> <li>- According to the rules, cheating is a serious offense and will always result in an imposition of a penalty. The penalties that can be started from the range of canceling the result of the course to canceling the student's admission.</li> </ul>
<b>6</b>	<p><b>Plagiarism:</b></p> <ul style="list-style-type: none"> <li>-Plagiarism is a serious offense and will always result in an imposition of a penalty. The penalties that can be started by making a zero mark for the work.</li> </ul>
<b>7</b>	<p><b>Other policies:</b></p> <ul style="list-style-type: none"> <li>-The student should by a commitment by the rules inside class and university. Therefore, he is expected to show respect for his classmate, instructors &amp; others.</li> </ul>