



مواصفات مقرر: التسجيلات البئرية

Course Specification Of: Well Logging

معلومات عن أستاذ المقرر						
الاسم Name	Assoc.Prof. Adel M. Al-Matary		الساعات المكتبية (أسبوعياً) Office Hours			
المكان ورقم الهاتف Location & Telephone No.	Sana'a, 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	Well Logging التسجيلات البئرية				
2.	رمز المقرر ورقمه Course Code and Number	PNGE 343				
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة			الإجمالي Total	
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial		تدريب Training
		2	1	-	-	3
4.	المستوى والفصل الدراسي Study Level and Semester	3 rd level, 1 st semester				
5.	المتطلبات السابقة للمقرر Pre-requisites	PNGE 222				
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

This course is aim to give understanding of the meaning of well logging and work of the Borehole environmental tool. The main topics are introduction to the electrical, nuclear, and acoustic properties of subsurface rocks, Well logging techniques, principles of measurements, log tools characteristics and quick method in (HC) detection.

مخرجات تعلم المقرر (CILOs)

After completing the course, the student will be able to:	بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادراً على أن:
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1. Recognize the role of well logging in petroleum exploration and the different types of logging tools.	
2. Explain the physical properties of rocks for each zone in the well from well logs	
3. Recognize the possible Reservoir zone and non-reservoir zone from logging.	
4. Predict any log in details and investigate models that calculate water saturation and clay volume.	
5. Evaluate well logs data of each zone and determine petro physical properties	
6. Apply different Tools to characterize the reservoir	
7. Solve Problems on clay volume and water saturation with limited data.	
8. Practice the difference between conventional and unconventional reservoir from log.	
9. Work coherently and successfully as a part of a team in projects.	
10. Make a successful report clearly on well performance	

Course Content محتوى المقرر

خطة تنفيذ الموضوعات النظرية Theoretical Aspect				
الرقم Order	الوحدات (الموضوعات الرئيسية) Units	الموضوعات التفصيلية Sub Topics	الأسبوع Week Due	الساعات الفعالية Con. H
1	What is Well Logging (General Introduction)	- Clay Types and properties and its effect on porosity values - logging Unit	Week 1	2
2	Volume of measurements	Log display Sampling rate Vertical resolution Depth of investigation	Week 2	2
3	Well logging (Borehole Environment)	Invasion and Resistivity profiles	Week 3	2
4	<i>Caliper Log</i> <i>Gamma Ray Logs</i>	Theory, Type of tools, Uses	Week 4	2
5	The Spontaneous Self potential (Sp) log.	Theory, Type of tools, Uses	Week 5	2
6	Porosity logs Density Measurement Tool	Theory, Type of tools, Uses	Week 6	2

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7	Porosity logs Neutron Measurement Tool	Theory, Type of tools, Uses	Week 7	
	MIDTERM EXAM		Week 8	2
	Porosity logs Sonic Measurement Tool	Theory, Type of tools, Uses	Week 9	2
	Photo-Electric Measurements,		Week 10	2
	Resistivity Measurement Tool	Theory, Type of tools, Uses	Week 11-12	4
	Induction Measurement Tool	Theory, Type of tools, Uses	Week 13	2
	Imaging Measurement Tool	Theory, Type of tools, Uses	Week 14	2
	Other logs	NMR	Week 15	2
	FINAL EXAM		Week 16	2
عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester			16	32

خطة تنفيذ موضوعات الجانب العملي Practical / Training/ Tutorials/ Exercises Aspects			
الرقم Order	موضوعات العملي/ المهام / التمارين Practical/ Tutorials/ Exercises Aspects	الأسبوع Week Due	الساعات الفعلية Cont. H
1	Log presentation and formats	Week1	2
2	Estimating of formation temperature with depth	Week2	2
3	Adjusting fluid resistivity for temperature	Week3	2
4	Reading Log Responses	Week4	2
5	Gamma Ray Log	Week5	2
6	Density Log	Week6	2
7	Mid Term practical exam	Week7	2
8	Neutron Log	Week8	2
9	Sonic Log	Week9	2
10	Resistivity Logs	Week10-11-12	6
11	Integrated Exercise	Week13	2
12	Final practical exam	Week14	2
اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester		14	28

استراتيجيات التعليم والتعلم Teaching Strategies
Lectures Discussion Inductive and deductive Demonstration

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Brain storm
Problem solving
Self and independent learning
Tutorials & practical classes,
Case study,
Computer based teaching
Small group working
Student-led Seminars

Tasks and Assignments الأنشطة والتكليفات

م No	التكليف/ الواجب Assignments	نوع التكليف (فردى/ تعاونى)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due
1	LAS file with MS word	فردى	5	Week 4
Total Score إجمالي الدرجة			5/150 10/ 100	

Learning Assessment تقويم التعلم

م No	أساليب التقويم Assessment Method	مؤعد (أسبوع) التقويم Week Due	الدرجة Mark	الوزن النسبي % Proportion of Final Assessment
1	Assignments	Quarter	5	3.4%
2	Participation	Weekly	10	6.6%
3	Quizzes	End of a topic	10	6.6%
4	Mid-Term (theoretical)	Week 8	15	10%
5	Mid-Term (practical)	Week 6	15	10%
6	Final Exam (practical)	Week 12	25	16.7%
7	Final Exam (theoretical)	Week 16	70	46.7%
Total المجموع			150	%100

Learning Resources مصادر التعلم

توثق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).

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

1. Classroom Lectures and Assignments
2. Asquith, G., and Krygowski, D. 2004. Basic well log analysis, 2nd edition. AAPG Memory.

Essential References المراجع المساندة

- 1-Toby Darling. 2005. WELL LOGGING AND FORMATION EVALUATION. Gulf Professional Publishing is an imprint of Elsevier Science.pp335
- 2-Baker Hughes INTE. 1998. Log Interpretation Charts. Reference manual. Baker Hughes INTEQ
- 3-Schlumberger. 2009. Log Interpretation Charts. 2009 edition.
- 4- Schlumberger. 1996. Log Interpretation Principles/Applications. 4th edition Schlumberger Education

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5- Juergen H. Schoen. FOUNDATIONS OF PETROPHYSICS. Lecture Notes

Electronic Materials and Web Sites etc. المصادر الإلكترونية ومواقع الإنترنت

1. www.spe.com
2. www.schlumberger.com
3. www.aapg.com

Course Policies الضوابط والسياسات المتبعة في المقرر

1	<u>Class Attendance</u> حضور الفعاليات التعليمية <ul style="list-style-type: none">- Students are expected to attend classes regularly and promptly.- The attendance should not be less than 80%.- 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.
2	<u>Tardy</u> الحضور المتأخر <ul style="list-style-type: none">- Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.
3	<u>Exam Attendance/Punctuality</u> ضوابط الامتحان <ul style="list-style-type: none">- According to the rules the student gets absent in the exam of the course.
4	<u>Assignments & Projects</u> التعيينات والمشاريع <ul style="list-style-type: none">- Papers survey or projects should be submitted by the time detriment by the professor.
5	<u>Cheating</u> الغش <ul style="list-style-type: none">- 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.
6	<u>Plagiarism</u> الانتحال <ul style="list-style-type: none">- 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.
7	<u>Other policies</u> سياسات أخرى <ul style="list-style-type: none">- The student should by a commitment by the rules inside class and university. Therefore, he is expected to show respect for his classmate, instructors & others.



هندسة النفط والغاز الطبيعي Petroleum and Natural Gas Engineering

قسم/ برنامج Department

مواصفات المقرر: خواص النفط والغاز

Course Specification Of: Petroleum Properties

المعلومات العامة عن المقرر General information about the course					
1.	اسم المقرر Course Title	Petroleum Properties			
2.	رمز المقرر ورقمه Course Code and Number	PNGE 327			
3.	الساعات المعتمدة للمقرر Credit Hours	الساعات المعتمدة Credit Hours			الإجمالي Total
		محاضرات Lecture	عملي Practical	سمنار/تمارين Seminar/Tutorial	
		2	1	0	3
4.	المستوى والفصل الدراسي Study Level and Semester	Third Year/ First Semester			
5.	المتطلبات السابقة للمقرر (إن وجدت) Pre-requisites (if any)				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)				
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	هندسة النفط والغاز الطبيعي PETROLEUM AND NATURAL GAS ENGINEERING			
8.	لغة تدريس المقرر Language of teaching the course	ENGLISH/ARABIC			
9.	نظام الدراسة Study System	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. Mahyoub A. Saeed			
12.	تاريخ اعتماد مجلس الجامعة Date of Approval	2020			

وصف المقرر Course Description	
وصف المقرر بالإنجليزية	وصف المقرر بالعربية
This course will discuss many topics related to the properties of crude oil and natural gas. These topics include Crude Oils chemical composition, classification, density, specific gravity; viscosity, molecular weight; vapor pressure, specific heat; heat of combustion; boiling range, flash point; pour point, sulfur content; aniline point; fractional distillation, TBP curve; and Natural gas properties. In addition to those topics, Introduction to the history of petroleum Industry, Definitions of Petroleum Crude Oil and Natural Gas, Classification of Crude Oils and Natural Gas Fields.	

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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	illustrate the history of petroleum industry		-a1
a2	recognize the classification of petroleum and AAPG oil fields classification		-a2
a3	Discuss the chemical composition of crude oil and its products		a3
a4	Discuss the physical properties of crude oil and its products		a4
a5	Discuss the natural gas properties		a5
b1	predict the chemical and physical crude oil properties and is products		-b1
b2	Analysis of crude oil Fractions and Refining		-b2
c1	conduct experiments that illustrate the different properties of petroleum		- c1
d1	Collaborate Effectively Within Team		-d1

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	illustrate the history of petroleum industry	A1	
a2	Recognize the classification of petroleum and AAPG oil fields classification.	A2	
a3	Discuss the chemical composition of crude oil and its products	A1	
a4	Discuss the physical properties of crude oil and its products	A1	
a5	Discuss the natural gas properties	A1	
b1	predict the chemical and physical crude oil properties and is products.	B1	
b2	Analysis of crude oil Fractions and Refining	B1	
c1	The ability to conduct experiments that illustrate the different properties of petroleum	C1	
d1	Collaborate Effectively Within Team	D1	

مواءمة مخرجات التعلم باستراتيجيات التعليم والتعلم والتقويم

Alignment of CILOs to Teaching and Assessment Strategies

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أولاً: مواءمة مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التعليم والتعلم والتقويم:

First: Alignment of Knowledge and Understanding CILOs

مخرجات المقرر / المعرفة والفهم Knowledge and Understanding CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies
a1- illustrate the history of petroleum industry	Lecture and discussion	Written exam Quizzes
a2 - Recognize the classification of petroleum and AAPG oil fields classification.		
a3 - Discuss the chemical composition of crude oil and its products.		
a4 - Discuss the physical properties of crude oil and its products.		
a5 - Discuss the natural gas properties.		

ثانياً: مواءمة مخرجات تعلم المقرر (المهارات الذهنية) باستراتيجية التدريس والتقويم:

Second: Alignment of Intellectual Skills CILOs

مخرجات المقرر / المهارات الذهنية Intellectual Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies
b1 - predict the chemical and physical crude oil properties and its products.	Lecture and discussion	Written exam Quizzes Lab reports
b2 - Analysis of crude oil Fractions and Refining		

ثالثاً: مواءمة مخرجات تعلم المقرر (المهارات المهنية والعملية) باستراتيجية التدريس والتقويم:

Third: Alignment of Professional and Practical Skills CILOs

مخرجات المقرر / المهارات المهنية والعملية Professional and Practical Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies
c1- design experiments that illustrate the different properties of petroleum	Lecture and discussion Lab reports	Lab report

رابعاً: مواءمة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقويم:

Fourth: Alignment of Transferable (General) Skills CILOs

مخرجات المقرر Transferable (General) Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies
d1- Collaborate Effectively Within Team	Small group work	interview

محتوى المقرر Course Content

Theoretical Aspect موضوعات الجانب النظري

رموز مخرجات التعلم	الساعات	عدد	الموضوعات الفرعية	الموضوعات الرئيسية/ الوحدات	الرقم
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Order	Topic List / Units	Sub Topics List	الأسابيع Number of Weeks	الفعالية Contact Hours	المقرر (CILOs)
1	Introduction to the history of petroleum Industry. Definition Of Petroleum Crude Oil and Natural Gas	BREIF HISTORY OF PETROLEUM INDUSTRY Exploration DRILLING PRODUCTION TRANSPORTATION	1	2	a1
2	CLASSIFICATION OF CRUDE OILS AND NATURAL GAS FIELDS	AAPG CLASSIFICATION OF OIL AND GAS FIELDS	1	2	a2
3	PROPERTIES OF CRUDE Oils	DENSITY, SPECIFIC GRAVITY AND API VISCOSITY, MOLECULAR WEIGHT, VAPOUR PRESSURE AND SPECIFIC HEAT HEAT OF COBUSTION, BILING POINT RANGE AND FLASH POINT POUR POINT, CLOUD POINT AND SULFUR CONTENT AND ANILINE POINT	5	10	a3,a4,b1,b2,c1
4	CRUDE OIL, FRACTIONAL DISILLATION AND BP CURVE	Crude oil distillation Conducting boiling points curve	2	4	a3,a4,b1,b2,c1
5	ANAYSIS OF FRACIONS AND REFINING	Chemical and physical analysis of fractions	1	2	a3,a4,b1,b2,c1
6	Gasoline Octane number and diesel cetane number	Calculating gasoline Octane number and diesel Cetane number.	1	2	a3,a4,b1,b2,c1
7	NATURAL GAS PROPERTIES	DISCUSSING CHEMICAL AND PHYSICAL PROPERTIES OF NATURAL GAS	3	6	a5,c1

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عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester		14	28	
B - Practical Aspect: (if any)				
Order	Tasks/ Experiments	Number of Weeks	contact hours	Learning Outcomes
1	Measuring the density Of Crude oil and its fractions. .	1	2	a4, b1,b2,c1,d1
2	Calculating the specific gravity and API of Crude oil and its fractions.	1	2	a2, a3, a4, a5, b1, c1,d1
3	Measuring the viscosity of Crude oil and its fractions	1	2	a4, b1,b2, c1,d1
5	Aniline point determination	1	2	a4, b1,b2, c1,d1
6	Crude oil Fractional distillation	1	2	a4, b1,b2, c1,d1
7	Measuring Boiling point and flash pointsof Crude oil and its fractions. .	1	2	a4, b1,b2,c1,d1
8	Measuring ofPour and cloud pointsof Crude oilsamples.	1	2	a4, b1,b2,c1,d1
9	Octane and Cetane numbers Calculation	1	2	a4, b1,b2,c1,d1
Number of Weeks /and Units Per Semester		8	16	

استراتيجيات التعليم والتعلم Teaching Strategies

Active Lectures (supported with discussions),
Hands-on laboratory work,
Tutorials
project/presentation
Computer and web-based learning,
Design work and projects

الأنشطة والتكليفات Tasks and Assignments

م No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردى/ تعاوني)	الدرجة المستد قة Mark	أسبوع التنفيذ Week Due	خرجات التعلم CILOs (symbols)
1	AAPG oil and gas fields classification in Yemen	Collecting data	3	3	a2
2	Octane number calculation	exercise	4	12	a3,b2
3	Octane number calculation	excercise	4	12	a3,b2
4	Crude oil types in yemen	lab	4	13	a3,b2,c1
Total Score إجمالي الدرجة			15		

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تقييم التعلم Learning Assessment					
الرقم No.	أنشطة التقييم Assessment Tasks	أسوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة Proportion النهائية of Final Assessment	مخرجات التعلم CILOs (symbols)
1	الأنشطة والتكليفات Tasks and Assignments	3,6,8	15	10%	a1,a2,a3
2	كوز (1) Quiz	3	5	3.3%	a1,a2,a3
3	اختبار نصف الفصل Midterm Exam	W8	25	16.7%	a1,a2,a3
4	كوز (2) Quiz	W12	5	3.3%	a3,a4,b1,b2,c1
5	اختبار نهاية الفصل (عملي) Final Exam (practical)	W 15	30	20%	b1,b2,c1,c2
6	اختبار نهاية الفصل (نظري) Final Exam (theoretical)	W16	70	46.7%	All outcomes
Total الإجمالي			150	%100	

توثيق المراجع حسب نظام APA (اسم المؤلف، سنة النشر، اسم الكتاب، دار النشر، بلد النشر).	
Required Textbook(s) المراجع الرئيسية (لا تزيد عن مرجعين)	
1. M.R. Riazi, 2005, Characterization and Properties of Petroleum Fractions, Published by ASTM International.	
2- James G. Speight , 2010, The Chemistry and Technology of Petroleum, 4th Edition	
Learning Resources مصادر التعلم	
1. Mohammed A. Fahim, Taher A. Alsahhaf, and Amal Alkilani, Fundamentals of petroleum refining.	
2. Malcolm A. Kelland , Production Chemicals for the Oil & Gas Industry, 2nd Edition, CRC Press,	
Electronic Materials and Web Sites etc. المصادر الإلكترونية ومواقع الإنترنت	
1. Journal of ASTM International	
2. http://www.Arab Oil Natural Gas. Com	
3. http://www.panolacollegestore.com	

الضوابط والسياسات المتبعة في المقرر Course Policies	
1	حضور الفعاليات التعليمية Class Attendance <ul style="list-style-type: none"> - Students are expected to attend classes regularly and promptly. - The attendance should not be less than 80%. - 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.
2	الحضور المتأخر Tardy <ul style="list-style-type: none"> - Attendance and arriving on time for the class are necessary. If the student is late, he will be prevented from class.
3	ضوابط الامتحان Exam Attendance/Punctuality <ul style="list-style-type: none"> - According to the rules the student gets absent in the exam of the course.



4	Assignments & Projects <u>التعيينات والمشاريع</u> - Papers survey or projects should be submitted by the time detriment by the professor.
5	Cheating <u>الغش</u> - 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.
6	Plagiarism <u>الانتحال</u> - 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.
7	Other policies <u>سياسات أخرى</u> - The student should by a commitment by the rules inside class and university. Therefore, he is expected to show respect for his classmate, instructors & others.



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