







مواصفات مقرر: مقدمة في هندسة النفط والغاز

Course Specification of: Introduction to Petroleum Engineering

G	المعلومات العامة عن المقرر General information about the course					
.1	اسم المقرر Course Title	Introduction to Petroleum Engineering مقدمة في هندسة النفط والغاز				
.2	رمز المقرر ورقمه Course Code and Number	PNGE 222				
			C <mark>redit Ho</mark> u	الساعات المعتمدة Irs		11 11
.3	الساعات المعتمدة للمقرر Credit Hours	محاضرات Lecture	عملي Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	الإجمالي Total
		3	-	-	-	3
.4	المستوى والفصل الدراسي Study Level and Semester	2 nd level	, 2 nd seme	ster		
.5	المتطلبات السابقة المقرر (إن وجدت) Pre-requisites (if any)	PNGE 221				
.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 Petrol	eum and Natural	Gas Engin	eering
.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 ر بالإنجليزية	وصف المقرر ر بالعربية
This course is an overview of the petroleum	
industry: its history, its technical achievements, its	
role in the global-economy and its future	
prospects. A brief introduction to modern	
exploration, production and processing operations	
is included. Reserve estimation and volumetric	
calculations of oil in place; natural forces in oil and	

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gas reservoirs; rotary drilling; rig components; casing, cementing and well completion; well logging; surface equipment; Yemen oil fields.

C	ourse Intended Learning Outcomes (C	مخرجات تعلم المقرر (ILOs)
After	completing the course, the student will be able to:	بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا
		على أن:
a1.	outline the basics of oil well drilling, completion and production	- a1
a2.	Describe the drilling equipment and the general basic of drilling techniques.	- a2
a3.	show formation evaluations, well logging, and well test analysis.	
b1.	Use the principles of engineering science in developing solutions to practical reservoir and production engineering.	-b1
b2.	Apply safety and environmental regulations in oil and gas operations	- b2
c1.	Carry out specialized engineering design in petroleum exploration, drilling, production, and reservoir engineering projects	- c1
c2.	know the drill stem testing procedure, test tool components and arrangement, quantitative pressure chart and data analysis.	- c2
d1.	Learn how to work as a part of teamwork	- d1
d2.	Learn proper use of equipment used in analysis.	- d2

Alignn	مواعمة 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			مخرجات التعلم المقصودة من البرنامج			
(Course Intended Learning Outcomes)			gram Intended Learning Outcomes) (تكتب جميع مخرجات البرنامج كما هي رمزا ونصا			
a1	outline the basics of oil well drilling, completion and production	A2				
a2	Describe the drilling equipment and the general basic of drilling techniques.	A2				
a3.	show formation evaluations, well logging, and well test analysis.	A3				
b1	Use the principles of engineering science in developing solutions to practical reservoir and production engineering.	B1				
b 2	Apply safety and environmental regulations in oil and gas operations	В3				
c1	Carry out specialized engineering design in petroleum exploration, drilling, production, and reservoir	C1				

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	engineering projects		
c2	Know the drill stem testing procedure, test tool components and arrangement, quantitative pressure chart and data analysis.	C2	
d1	Learn how to work as a part of teamwork	D 1	
d2	Learn proper use of equipment used in analysis.	D2	
1			

	لتعليم والتعلم والتقويم	التعلم باستراتيجيات اا	مواءمة مخرجات ا			
Aligni	ment of CILOs to Teaching and Assessment Strategies	S				
	لفهم) باستراتيجية التعليم والتعلم والتقويم:	تعلم المقرر (المعارف وا	أولا: مواءمة مخرجات ا			
First:	First: Alignment of Knowledge and Understanding CILOs					
	مخرجات المقرر/ المعرفة والفهم	استراتيجية التعليم والتعلم	استراتيجية التقويم			
	Knowledge and Understanding CILOs	Teaching Strategies	Assessment Strategies			
a1 -	outline the basics of oil well drilling, completion and production	- Lectures - Discussion	Examinations, Assignments			
a2 -	Describe the drilling equipment and the general basic of drilling techniques.	DemonstrationCase study	Oral presentation Achievement tests			
а3-	show formation evaluations, well logging, and well test analysis.	-				
	cost analysis.	<u>II </u>	<u> </u>			
	. هنية) باستراتيجية التدريس والتقويم:	نعلم المقرر (المهارات الذ	ثانيا: مو اعمة مخرحات ت			
Secon	d: Alignment of Intellectual Skills CILOs	30) 33 (• • • • • • • • • • • • • • • • • • • •			
	6	استر اتبحية التعليم و التعلم	استر اتبحية التقويم			
	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	'			
b1 -	مخرجات المقرر/ المهارات الذهنية	Teaching Strategies Discussion Demonstration Brain storm	استراتيجية التقويم Assessment Strategies Essay test, Assignments, Oral presentations.			
	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and	Teaching Strategies Discussion Demonstration	Assessment Strategies Essay test, Assignments,			
b1 -	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and production engineering. Apply safety and environmental regulations in oil and gas operations	Teaching Strategies Discussion Demonstration Brain storm Problem solving	Assessment Strategies Essay test, Assignments, Oral presentations.			
b1 -	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and production engineering. Apply safety and environmental regulations in oil	Teaching Strategies Discussion Demonstration Brain storm Problem solving	Assessment Strategies Essay test, Assignments, Oral presentations.			
b1 -	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and production engineering. Apply safety and environmental regulations in oil and gas operations	Teaching Strategies Discussion Demonstration Brain storm Problem solving	Assessment Strategies Essay test, Assignments, Oral presentations.			
b1 -	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and production engineering. Apply safety and environmental regulations in oil and gas operations : Alignment of Professional and Practical Skil مخرجات المقرر/ المهارات المهنية والعملية	Teaching Strategies Discussion Demonstration Brain storm Problem solving Teaching Strategies Discussion Demonstration Brain storm Problem solving	Assessment Strategies Essay test, Assignments, Oral presentations. ثالثا: مواءمة مخرجات			
b1 -	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs Use the principles of engineering science in developing solutions to practical reservoir and production engineering. Apply safety and environmental regulations in oil and gas operations and gas operations Lack Professional and Practical Skiles (Adjust Professional and Practical Skiles)	Teaching Strategies Discussion Demonstration Brain storm Problem solving Teaching Strategies Discussion Demonstration Brain storm Problem solving	Assessment Strategie Essay test, Assignments, Oral presentations.			

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الجمهوريسة اليمنسية وزارة التعليم العالمي والبحث العلمي جــــــامعة صـــــنعاء كلية البترول والموارد الطبيعية

رابعا: 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- d2-	Learn how to work as a part of teamwork Learn proper use of equipment used in analysis.	Small group working Student-led Seminars Case Study Method	Achievement tests Team working		

C	Course Content محتوى المقرر								
Theor	موضوعات الجانب النظري Theoretical Aspect								
الرقم Order	الموضوعات الرئيسة/ الوحدات Topic List / Units	الموضوعات الفرعية Sub Topics List	عدد الأسابيع Number of Weeks	الساعات الفعلية Contact Hours	رموز مخرجات التعلم للمقرر (CILOs)				
1	Introduction and overview of Petroleum Engineering	-definition of petroleum engineering - types of petroleum engineers	1	2	a1 a2				
2	Drilling & Workover	-Rotary Drilling: General Method and Equipment -Basic Rig Components - Composition, Functions, and General Nature of Rotary Drilling Fluids	3	9	a1, b1, c1, d2				
3	Rotary Drilling Techniques	-Vertical Drilling -Directional and Horizontal Drilling -Drilling Problems	2	6	a1, b1, c1, d2				
4	Coring and Core Analysis	Conventional analysis Unconventional analysis	1	3	a2, b2				
5	Well Logging	Miscellaneous Logging Tools	1	3	a2.2				
6	Basic of Reservoir Engineering	Data Evaluation for Reservoir Calculations Estimating Hydrocarbons in place Material Balance (MB)	3	9	a3, c1, c2, d2				
7	Basic of Production Engineering	Well Completion Stimulation Methods Well Testing	2	6	a3, c1				
8	Natural Sources of Energy Available to Produce Oil		1	3	a2, c2, d2				
9	Reservoir Drives	Artificial lift	1	3	a2, d2				
		عدد الأسابيع والساعات and Contact Hours Per Semester/	14	42					

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Prac	Practical Aspect (if any) (إن وجدت العملية (إن وجدت)				
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	N/A				
	اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester				

استراتيجيات التعليم والتعلم والتعلم Teaching Strategies

- Lectures
- Discussion
- Demonstration
- Brain storm
- Problem solving
- Self and independent learning
- Case study,
- Computer based teaching
- Small group working
- Student-led Seminars

r	Tasks and Assignments الأنشطة والتكليفات					
				- i	1 m1 m1 *	
م No	التكليف/ الواجب Assignments/ Tasks	نوع التكليف (فردي/ تعاوني)	الدرجة المستحقة Mark	اسبوع التنفيذ Week Due	خرجات التعلم CILOs (symbols)	
1	n/a					
	إجمالي الدرجة Total Score					

	Learning Assessment تقييم التعلم						
الرقم No.	أنشطة التقييم Assessment Tasks		أسوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهانية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)	
1	Exercises	We	ekly	20	13.3%	a1, a2, b1, b2, c1, c2	
2	Assignments	Qua	arter	10	6.7%	a1, a2, b1, b2	
3	Participation	We	ekly	10	6.7%	c1, c2, d1, d2	
4	Quizzes	End of	f a topic	10	6.7%	a1, a2, b1, b2	

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5	Mid-Term written exam	Week 7	30	20%	all
6	Final Exam (theoretical)	Week 16	70	46.6%	all
	جمالی Total	150	100.00%		

مصادر التعلم Learning Resources

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

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

No textbook is required. Lectures will be handouts from petroleum engineering courses taught within the industry by J. H. Hunter, H. C. Slider, and a host of others

المراجع المساندة Essential References

- 1. J.-R. Ursin & A. B. Zolotukhin. 1997. Fundamentals of Petroleum reservoir engineering.
 - Hoyskole Forbger.
- 2. Howard B. Bradley, 1987. Petroleum Engineering Handbook, Society of Petrole Engineers (SPE),
- 3. Amyx, J. W., Bass, D. M., jr., and Whitting, R. L., 1960. Petroleum Reservoi Engineering- Physical Properties, McGraw - Hill Book Company,
- 4. Slider, H. C., 1983. World Wide Practical Petroleum Reservoir Engineering Meti Penn Well Books Company

المصادر الإلكترونية ومواقع الإنترنت .Electronic Materials and Web Sites etc

- 1- www.spe.com
- 2- http://link.springer.com/
- 3-http://www.sciencedirect.com/

	Course Policies:
1	Class Attendance:
	- 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	Tardy:
	- Attendance and arriving on time for the class are necessary. If the student is late, he will be
_	prevented from class.
3	Exam Attendance/Punctuality:
	- According to the rules the student gets absent in the exam of the course.
4	Assignments & Projects:
	- Papers survey or projects should be submitted by the time detriment by the professor.

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5	Cheating: - 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:
	-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:
	-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.









الجمهوريسة اليمنسية وزارة التعليم العالمي والبحث العلمي جـــــامعة صــــنعاء كلية البترول والموارد الطبيعية

البترول والموارد الطبيعية Faculty of Petroleum and Natural Resources

هندسة النفط والغاز الطبيعي Petroleum and Natural Gas Engineering

کلیة Faculty: قسم/ برنامج Department:

العام الجامعي: 2019- 2020م

خطة مقرر: مقدمة في هندسة النفط والغاز

Course Plan (Syllabus): Introduction to Petroleum Engineering

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

(معلومات عامة عن المقرر General information about the course					
.1	اسم المقرر Course Title	Introduction to Petroleum Engineering مقدمة في هندسة النفط والغاز				
.2	رمز المقرر ورقمه Course Code and Number	PNGE 222				
			C <mark>redit Ho</mark> u	لساعات المعتمدة Irs	١	الإجمالي
.3	الساعات المعتمدة للمقرر Credit Hours	محاضرات Lecture	عمل <i>ي</i> Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	Total
		3	1	-	•	3
.4	المستوى والفصل الدراسي Study Level and Semester	2 nd level, 2 nd semester				
.5	المتطلبات السابقة للمقرر Pre-requisites	PNGE 2	221			
.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	of Petrole	um and Natural	Resource	es

وصف المقرر Course Description	
This course is an overview of the petroleum industry: its	
history, its technical achievements, its role in the	
global-economy and its future prospects. A brief	
introduction to modern exploration, production and	
processing operations is included. Reserve estimation	

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and volumetric calculations of oil in place; natural forces in oil and gas reservoirs; rotary drilling; rig components; casing, cementing and well completion; well logging; surface equipment; Yemen oil fields

Co	urse 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.	outline the basics of oil well drilling, completion and production	- a1
a2.	Describe the drilling equipment and the general basic of drilling techniques.	- a2
	show formation evaluations, well logging, and well test analysis.	
b1.	Use the principles of engineering science in developing solutions to practical reservoir and production engineering.	-b1
b2.	Apply safety and environmental regulations in oil and gas operations	- b2
c1.	Carry out specialized engineering design in petroleum exploration, drilling, production, and reservoir engineering projects	- c1
c2.	Know the drill stem testing procedure, test tool components and arrangement, quantitative pressure chart and data analysis.	- c2
d1.	Learn how to work as a part of teamwork	- d1
d2.	Learn proper use of equipment used in analysis.	- d2

	محتوى المقرر Course Content					
The	Theoretical Aspect خطة تنفيذ الموضوعات النظرية					
ا لرقم Order	الوحدات (الموضوعات الرئيسة) Units	الموضوعات التفصيلية Sub Topics	الأسبوع Week Due	الساعات الفعلية Con. H		
1	Introduction and overview of Petroleum Engineering	-definition of petroleum engineering - types of petroleum engineers	Week 1	2		
2	Drilling & Workover	-Rotary Drilling: General Method and Equipment -Basic Rig Components - Composition, Functions, and General Nature of Rotary Drilling Fluids	Week 2-3	9		
3	Rotary Drilling Techniques	-Vertical Drilling -Directional and Horizontal Drilling	Week 4-5	6		

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		-Drilling Problems		
4	Coring and Core Analysis	Conventional analysis Unconventional analysis	Week 6	3
5	Mid Term Exam		Week 7	3
6	Well Logging	Miscellaneous Logging Tools	Week 8	3
7	Basic of Reservoir Engineering	Data Evaluation for Reservoir Calculations Estimating Hydrocarbons in place Material Balance (MB)	Week 9-11	9
8	Basic of Production Engineering	Well Completion Stimulation Methods Well Testing	Week 12-13	6
9	Natural Sources of Energy Available to Produce Oil		Week 14	3
10	Reservoir Drives	Artificial lift	Week 15	3
11	Final Exam		Week 16	3
	عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester			48

Prac	خطة تنفيذ موضوعات الجانب العملي Practical / Training/ Tutorials/ Exercises Aspects				
ا لرقم Order	الساعات الفطية الأسبوع المهام / التمارين موضوعات العملي/ المهام / التمارين Week Due Practical/ Tutorials/ Exercises Aspects				
1	■ N/A				
	اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester				

استراتيجيات التعليم والتعلم Teaching Strategies

- Lectures
- Discussion
- Demonstration
- Brain storm
- Problem solving
- Self and independent learning
- Case study,
- Computer based teaching
- Small group working
- Student-led Seminars

الأنشطة والتكليفات Tasks and Assignments

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

	Learning Assessment تقويم التعلم				
۾	الوزن النسبي% الدرجة موعد أسبوع) التقويم أساليب التقويم م				
No 1	Assessment Method Exercises	Week Due Weekly	Mark 20	Assessment 13.3%	
2	Assignments	Quarter	10	6.7%	
3	Participation	Weekly	10	6.7%	
	Quizzes	End of a topic	10	6.7%	
4	Mid-Term written exam	Week 7	30	20%	
5	Final Exam (theoretical)	70	46.6%		
	المجموع Total	150	100.00%		

مصادر التعلم Learning Resources

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

Required Textbook(s) (ال تزيد عن مرجعين (لا تزيد عن مرجعين)

No textbook is required. Lectures will be handouts from petroleum engineering courses taught within the industry by J. H. Hunter, H. C. Slider, and a host of others

المراجع المساندة Essential References

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- 2. Howard B. Bradley, 1987. Petroleum Engineering Handbook, Society of Petrole Engineers (SPE),
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- 3-http://www.sciencedirect.com/

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	Course Policies:
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3	Exam Attendance/Punctuality: - According to the rules the student gets absent in the exam of the course.
4	Assignments & Projects: - Papers survey or projects should be submitted by the time detriment by the professor.
5	Cheating: - 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: -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: -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.









الجمهوريـة اليمنــية وزارة التعليم العالـي والبحث العلمي جـــــامعة صـــــنعاء كلية البترول والموارد الطبيعية