







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

مواصفات مقرر: معدات سطحية

Course Specification of: Surface Facilities

G	eneral information about the	course .	عن المقرر	المعلومات العامة		
1.	اسم المقرر Course Title			Surface Facilitie	S	
2.	رمز المقرر ورقمه Course Code and Number			PNGE 454		
		(Credit Hou	الساعات المعتمدة Irs		11 21
3.	الساعات المعتمدة للمقرر Credit Hours	محاضرات Lecture	عملي Practical	سمنار/تمارین Seminar/Tutorial	تدریب Training	الإجمالي Total
		2	0	1	0	3
4.	المستوى والفصل الدراسي Study Level and Semester	Fourth Level /second semester				
5.	المتطلبات السابقة المقرر (إن وجدت) Pre-requisites (if any)	PNGE 351				
6.	المتطلبات المصاحبة (إن وجدت) Co-requisites (if any)	NA				
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered		Petroleum	and Natural Gas	Engineering	,
8.	لغة تدريس المقرر Language of teaching the course			English		
9.	نظام الدراسة Study System			Semester wise		
10.	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources			ces	
11.	اسم معد(و) مواصفات المقرر Prepared by		Prof. A	bbas Mohamed A	l-Khudafi	
12.	تاریخ اعتماد مجلس الجامعة Date of Approval					

وصف المقرر Course Description	
وصف المقرر ر بالإنجليزية	وصف المقرر ر بالعربية

This course deals mainly with theories and practice of surface production process and facilities. Topics include production facility overview, two-phase separation of produced fluids and facilities, three-phase separation facilities, treatment of separation oil, crude oil desalting facilities, crude oil stabilization facilities, produced water treating facilities.

مخرجات تعلم المقرر (Course Intended Learning Outcomes (CILOs)

بعد الانتهاء من دراسة المقرر سوف يكون الطالب قادرا على أن: ا After completing the course, the student will be able to:

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









a1.	Identify the basic principles of separation process.	- a1
a2.	Describe the modern techniques and technology	- a2
	in surface facilities.	
b1.	Evaluate the optimum operating conditions of	-b1
	multi-stage separators for different produced	
	crude oil compositions	
c1.	Design treatment equipment and separation	- c1
	facilities	
c2.	Apply theory of equilibrium and fluid	-c2
	properties to estimate separation characteristics	
d1.	Participate in team work effectively	- d1

Alionn	مواعمة مخرجات تعلم المقرر مع مخرجات التعلم للبرنامج: Alignment of CILOs (Course Intended Learning Outcomes) to PILOs (Program Intended Learning Outcomes)				
7 Highii	مخرجات التعلم المقصودة من المقرر	مخرجات التعلم المقصودة من البرنامج			
	(Course Intended Learning Outcomes)	(Program Intended Learning Outcomes)			
a1	Identify the basic principles of separation process.	A2	Define the basic concepts of petroleum exploration, drilling and production as well as demonstrate global and local safety And environment impact on oil and gas operations.		
a2	Describe the modern techniques and technology in surface facilities.	A4	Show the knowledge understanding of basic principles of general culture.		
b1	Evaluate the optimum operating conditions of multi-stage separators for different produced crude oil compositions	B1	Use the principles of engineering in developing solutions to practical petroleum engineering and select appropriate computer software for modeling		
c1	Design treatment equipment and separation facilities	C1	Carry out special engineering design in all petroleum. engineering projects.		
c2	Apply theory of equilibrium and fluid properties to estimate separation characteristics	C2	Analysis of well logs and well testing and practice the. techniques for constructing engineering graphics.		
d1	Participate in team work effectively	D1	Collaborate effectively within multidisciplinary teams under stressful environment and within constraints.		

مواعمة مخرجات التعلم باستراتيجيات التعليم والتعلم والتقويم Alignment of CILOs to Teaching and Assessment Strategies							
'	أولا: مواءمة مخرجات تعلم المقرر (المعارف والفهم) باستراتيجية التعليم والتعلم والتقويم: First: Alignment of Knowledge and Understanding CILOs						
	مخرجات المقرر/ الم	استراتيجية التعليم والتعلم	استراتيجية التقويم				
'	Understanding CILOs	Teaching Strategies	Assessment Strategies				
Prepared by Assoc.Prof. Adel Al- Matary	Quality Assurance Unit Assoc.Prof. Adel Al-Matary	Dean of the Faculty Assoc.Prof. Bassim AlKhirbash	Dean of the Development & Quality Assurance Center Assoc.Prof. Huda Al-Emad				









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a1 - a2 -	Identify the basic principles of separation process. Describe the modern techniques and technology in surface facilities.	- Field trip	- Oral questions - Quiz's - Exams		
Secon	nd: Alignment of Intellectual Skills CILOs	,	'		
	مخرجات المقرر/ المهارات الذهنية Intellectual Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies		
b1-	Evaluate the optimum operating conditions of multi-stage separators for different	- Project	 Project report evaluation Homework Practical Exam Quiz 		
Thire	عملية) باستراتيجية التدريس والتقويم: d: Alignment of Professional and Pract	tical Skills CILOs	<u>'</u>		
F	مخرجات المقرر/ المهارات المهنية والعملية Professional and Practical Skills CILOs	استراتيجية التعليم والتعلم Teaching Strategies	استراتيجية التقويم Assessment Strategies		
c1-	Design treatment equipment and separation facilities Apply theory of equilibrium and fluid properties to estimate separation characteristics	Class discussionLectureProjectTutorial	HomeworkPractical examsProject report evaluation		
رابعا: مواءمة مخرجات تعلم المقرر (المهارات العامة) باستراتيجية التدريس والتقويم: Fourth: Alignment of Transferable (General) Skills CILOs استراتيجية التقويم استراتيجية التعليم والتعلم استراتيجية التعليم والتعلم Transferable (General) Skills CILOs Teaching Strategies Assessment Strategies					
d1-	Participate in team work effectively	ProjectPresentationGroup discussions	Project report evaluationOral presentation		

Course Content محتوى المقرر					
Theoretical Aspect موضوعات الجانب النظري					
الرقم Order	الموضوعات الرئيسة/ الوحدات	الموضوعات الفرعية Sub Topics List	عدد الأسابيع	الساعات الفعلية	رموز مخرجات التعلم للمقرر

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	Topic List / Units		Number of Weeks	Contact Hours	(CILOs)
1	Production Facility Overview	 Fluid Treatment Objectives Production and Separation of Well Fluids Treatment and Handling of Separated Fluids Additional Facility Functions 	1	2	a1,a2
		Separation theory and separation calculationsOptimum separation calculation	1	2	
2	Two-Phase Separation of Produced Fluids and facilities	 Two-Phase(Liquid-Gas) Separation Two-Phase Horizontal Separators Two-Phase Vertical Separators Spherical Separators Double-Barreled and Filter- Type Separators 	1	2	a1,a2,b1, c1,c2
		Comparison of Two-Phase Separator TypesInternal Components	1	2	
		Operating ProblemsSizing Two-Phase Separators	1	2	
	Three-phase	 Theory of three phase separation Three -Phase Horizontal Separators 	1	2	
3	separation facilities	 Three -Phase Vertical Separators Sizing Three -Phase Separators Operating Problems 	1	2	a1,a2,c1,c2
4	Mid-term Exam		1	2	a1,a2,b1
5	Treatment of Separation Oil	 Emulsions and Their Treatment Oil-Treating Equipment Vertical Treaters Horizontal Treaters 	1	2	a1,a2,c1,c2

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		 Oil-Treating Equipment Electrostatic Treaters Chemical Treatment Other Treating Equipment Sizing of Treating Equipment 	1	2	
6	Crude Oil Desalting Facilities	 Introduction Determination of salt content in crude oil Equipment description 	1	2	a1,a2,c1,c2
7	Crude Oil Stabilization Facilities	IntroductionStabilization operationsEquipment	1	2	a1,a2,c1,c2
		ImportanceTheory of water treating	1	2	
8	Produced Water Treating Facilities	 Description of produced water equipment Offshore water disposal equipment 	1	2	a1,a2,c1,c2
		 Design of water treating equipment 	1	2	
9	Final Exam		1	2	a1,a2,b1,c1,c2
	عدد الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester		16	32	

Prac	Practical Aspect (if any) (إن وجدت) الموضوعات 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	Separation calculations and optimum separation pressure	2	4	b1,c1,c2,d1	
2	Two-phase separator sizing (horizontal & vertical).	2	4	b1,c1,c2,d1	
3	Three-phase separator sizing (horizontal & vertical).	2	4	b1,c1,c2,d1	
4	Crude oil treating equipment design.	3	6	b1,c1,c2,d1	
5	Produced water treating equipment design.	2	4	b1,c1,c2,d1	
6	Design of one complete production facilities	2	4	b1,c1,c2,d1	
7	Final Practical Exam	1	2	b1,c1,c2	
	اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester	14	28		

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استراتيجيات التعليم والتعلم Teaching Strategies

- Class discussion
- Field trip
- Group discussions
- Lectures
- Presentation
- Project
- Self and independent learning
- Tutorial

7	Tasks and Assignments الأنشطة والتكليفات					
no No	() () () () () () () () () ()					
1	Homeworks	Individual	5	2,4,8,10,12	b1, c1,c2	
2	Project	Cooperative	10	13	b1, c1,c2,d1	
	إجمالي الدرجة Total Score		15			

	Learning Assessment تقييم التعلم					
الرقم No.	أنشطة التقييم Assessment Tasks	أسوع التقييم Week due	الدرجة Mark	نسبة الدرجة إلى الدرجة النهائية Proportion of Final Assessment	مخرجات التعلم CILOs (symbols)	
1	الأنشطة والتكليفات Tasks and Assignments	2,4,8,10,12,13	15	10%	b1,c1,c2,d1	
2	كوز(1) Quiz	6	2	1%	a1,a2.b1	
3	اختبار نصف الفصل Midterm Exam	8	20	13%	a1,a2,b1	
4	كوز(2) كوز	12	3	2%	a1,a2,b1	
5	اختبار نهاية الفصل (عملي) Final Exam (practical)	15	10	7%	b1, c1,c2	
6	اختبار نهاية الفصل (نظري) Final Exam (theoretical)	16	100	67%	a1,a2,b1,c1,c2	
	الإجمالي Total		150	%100		

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مصادر التعلم Learning Resources

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

- 1. Ken Arnold& Maurice Stewart, 1999, Surface Production Operations, 2nd Ed., Volume 1, Gulf Publishing Company, Houston.
- 2. Abdel-Aal H. K & Mohamed Aggour, 2003, Petroleum and gas field processing, Marcel Dekker, Inc, New York, USA.

المراجع المساندة Essential References

- 1- Ken Arnold& Maurice Stewart, 2008, Surface Production Operations, 3d Ed., Volume 1, Elsevier, USA.
- 2-Production handbook, Shell International Petroleum, 1991, vol. 6. Production operation, The Haguem, UK.

المصادر الإلكترونية ومواقع الإنترنت Electronic Materials and Web Sites etc.

- 1-https://en.wikipedia.org/wiki
- 2-https://wiki.aapg.org/Surface production equipment
- 3-https://www.slb.com/well-production/processing-and-separation/production-facilities
- 4-https://petrowiki.org/Oil_and_gas_processing

الضوابط والسياسات المتبعة في المقرر Course Policies

1 Class Attendance حضور الفعاليات التعليمية

- A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university

Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again

الحضور المتأخر Tardy

For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he/she will be considered as absent.

3 Exam Attendance/Punctuality ضوابط الامتحان

- A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.

4 Assignments & Projects التعيينات والمشاريع

- In general one assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.

5 <u>Cheating</u> الغش

- For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.

6 Plagiarism الانتحال

- Plagiarism is the attending of a student the exam of a course instead of another

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student.

If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.

سیاسات أخری Other policies

- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.
 - Mobile phones are not allowed in class during the examination.
 - Lecture notes and assignments might be given directly to students using soft or hard copy.









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

قسم/ برنامج: هندسة النفط والغاز الطبيعي العام الجامعي: 2019- 2020م

خطة مقرر: معدات سطحية Course Plan (Syllabus): Surface Facilities

Information about Faculty Member Responsible for the Course معلومات عن أستاذ المقرر							
الاسم Name	Prof. Abbas Mohamed Abdo (السباعات المكتبية (أسبوعيا) Al-Khudafi Office Hours						
المكان ورقم الهاتف Location & Telephone No.	Hadhramout University 967-770254579 967739678710	السبت SAT	الأحد SUN	الاثنين MON	الثلاثاء TUE	الأربعاء WED	الخميس THU
البريد الإلكتروني E-mail	prof.abuahmad@yahoo.com						

(معلومات عامة عن المقرر General information about the course						
1.	اسم المقرر Course Title	Surface Facilities					
2.	رمز المقرر ورقمه Course Code and Number	PNGE 454					
			C <mark>redit Ho</mark> u	لساعات المعتمدة Irs	١	11 00 21	
3.	الساعات المعتمدة للمقرر Credit Hours	تدریب سمنار/تمارین عملی محاضرات Lecture Practical Seminar/Tutorial Training				الإجمالي Total	
		2	0	1	0	3	
4.	المستوى والفصل الدراسي Study Level and Semester	Fourth Level /second semester					
5.	المتطلبات السابقة للمقرر Pre-requisites	PNGE 351					
6.	المتطلبات المصاحبة (إن وجدت)Co–requisite	NA					
7.	البرنامج الذي يدرس له المقرر Program (s) in which the course is offered	Petroleum and Natural Gas Engineering					
8.	لغة تدريس المقرر Language of teaching the course	English					
9.	مكان تدريس المقرر Location of teaching the course	Faculty of Petroleum and Natural Resources					

وصف المقرر Course Description

This course deals mainly with theories and practice of surface production process and facilities. Topics include production facility overview, two-phase separation of produced fluids and facilities, three-phase separation facilities, treatment of separation oil, crude oil desalting facilities, crude oil stabilization facilities, produced water treating facilities.

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مخرجات تعلم المقرر (ClLOs) 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. Identify the basic principles of separation process.	- a1				
a2. Describe the modern techniques and technology in surface facilities	- a2				
b1. Evaluate the optimum operating conditions of multi-stage separators for different	-b1				
c1. Design treatment equipment and separation facilities	- c1				
c2. Apply theory of equilibrium and fluid properties to estimate separation characteristics	- c2				
d1. Participate in team work effectively	- d1				

C	محتوى المقرر Course Content								
Theor	نظري etical Aspect	موضوعات الجانب ال							
الرقم Order	الموضوعات الرئيسة/ الوحدات Topic List / Units	Sub Toniog List		الساعات الفعلية Contact Hours					
1	Production Facility Overview	 Fluid Treatment Objectives Production and Separation of Well Fluids Treatment and Handling of Separated Fluids Additional Facility Functions 	1	2					
		Separation theory and separation calculationsOptimum separation calculation	2	2					
2	Two-Phase Separation of Produced Fluids and facilities	 Two-Phase(Liquid-Gas) Separation Two-Phase Horizontal Separators Two-Phase Vertical Separators Spherical Separators Double-Barreled and Filter- Type Separators 	3	2					

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		 Comparison of Two-Phase Separator Types Internal Components 	4	2
		Operating ProblemsSizing Two-Phase Separators	5	2
	Three-phase	 Theory of three phase separation Three -Phase Horizontal Separators 	6	2
3	separation facilities	 Three -Phase Vertical Separators Sizing Three -Phase Separators Operating Problems 	7	2
4	Mid-term Exam		8	2
	Treatment of	 Emulsions and Their Treatment Oil-Treating Equipment Vertical Treaters Horizontal Treaters 	9	2
5	Separation Oil	 Oil-Treating Equipment Electrostatic Treaters Chemical Treatment Other Treating Equipment Sizing of Treating Equipment 	10	2
6	Crude Oil Desalting Facilities	IntroductionDetermination of salt content in crude oilEquipment description	11	2
7	Crude Oil Stabilization Facilities	IntroductionStabilization operationsEquipment	12	2
		 Importance Theory of water treating	13	2
8	Produced water treating facilities	 Description of produced water equipment Offshore water disposal equipment 	14	2
		 Design of water treating equipment 	15	2
9	Final Exam		16	2

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Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









عدد الأسابيع والساعات الفعلية Number of Weeks (and Contact Hours Par Samestar	16	32
Number of Weeks /and Contact Hours Per Semester		

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	Separation calculations and optimum separation pressure	1,2	4			
2	Two-phase separator sizing (horizontal & vertical).	3,4	4			
3	Three-phase separator sizing (horizontal & vertical).	5,6	4			
4	Crude oil treating equipment design.	7,8,9	6			
5	Produced water treating equipment design.	10,11	4			
6	Design of one complete production facilities	12,13	4			
7	Final Practical Exam	14	2			
	اجمالي الأسابيع والساعات الفعلية Number of Weeks /and Contact Hours Per Semester	14	28			

استراتيجيات التعليم والتعلم Teaching Strategies

- Class discussion
- Field trip
- Group discussions
- Lectures
- Presentation
- Project
- Self and independent learning
- **Tutorial**

Γ	Tasks and Assignments الأنشطة والتكليفات						
م No	التكليف/ الواجب Assignments	نوع التكليف (فردي/ تعاوني)	الدرجة المستحقة Mark	أسبوع التنفيذ Week Due			
1	Homeworks	Individual	5	2,4,8,10,12			
2	Project	Cooperative	10	13			
	إجمالي الدرجة Total Score		15				

	Learning Ass	تقويم التعلم essment			
م		أساليب التقويم	موعد (أسبوع) التقويم Week Due	الدرجة Mark	الوزن النسبي% Proportion of
	Prepared by	Quality Assurance Unit	of the Faculty		Development

Assoc.Prof. Adel Al-Matary

Assoc.Prof. Adel Al-Matary

Assoc.Prof. Bassim AlKhirbash

& Quality Assurance Center Assoc.Prof. Huda Al-Emad









No	Assessment Method			Final Assessment
1	Tasks and Assignments	2,4,8,10,12,13	15	10%
2	Quiz	6	2	1%
3	Midterm Exam	8	20	13%
4	كوز(2) Quiz	12	3	2%
5	Final Exam (practical)	15	10	7%
6	Final Exam (theoretical)	16	100	67%
	الإجمالي Total	150	%100	

مصادر التعلم Learning Resources

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

- 1. Ken Arnold& Maurice Stewart, (1999), Surface Production Operations, 2nd Ed., Volume 1, , G Publishing Company, Houston.
- 2. Abdel-Aal H. K & Mohamed Aggour, (2003). Petroleum and gas field processing, , Marcel Dekker, Inc, New York, USA

المراجع المساندة Essential References

- 1- Ken Arnold& Maurice Stewart, 2008, Surface Production Operations, 3d Ed., Volume 1, Elsevier, USA.
- 2-Production handbook, Shell International Petroleum, 1991, vol. 6. Production operation, The Hague, UK.

المصادر الإلكترونية ومواقع الإنترنت .Electronic Materials and Web Sites etc

- 1-https://en.wikipedia.org/wiki
- 2-https://wiki.aapg.org/Surface production equipment
- 3-https://www.slb.com/well-production/processing-and-separation/production-facilities
- 4-https://petrowiki.org/Oil_and_gas_processing

الضوابط والسياسات المتبعة في المقرر Course Policies

1 Class Attendance حضور الفعاليات التعليمية

- A student should attend not less than 75 % of total hours of the subject; otherwise he/she will not be able to take the exam and will be considered as exam failure. If the student is absent due to illness, he/she should bring a proof statement from university
- Clinic. If the absent is more than 25% of a course total contact hours, student will be required to retake the entire course again

الحضور المتأخر Tardy

- For late in attending the class, the student will be initially notified. If he repeated lateness in attending class, he/she will be considered as absent.
- 3 Exam Attendance/Punctuality ضوابط الامتحان
 - A student should attend the exam on time. He/she is permitted to attend an exam half one hour from exam beginning, after that he/she will not be permitted to take the exam and he/she will be considered as absent in exam.

Prepared by Assoc.Prof. Adel Al-Matary Quality Assurance Unit Assoc.Prof. Adel Al-Matary Dean of the Faculty Assoc.Prof. Bassim AlKhirbash









الجمهوريـة اليمنـية وزارة التعليم العالـي والبحث العلمي جـــامعة صـــنعاء كلية البترول والموارد الطبيعية

4 Assignments & Projects التعيينات والمشاريع

- In general one assignment is given to the students after each chapter; the student has to submit all the assignments for checking on time, mostly one week after given the assignment.

الغش Cheating

- For cheating in exam, a student will be considered as fail. In case the cheating is repeated three times during his/her study the student will be disengaged from the Faculty.

الانتحال Plagiarism

- Plagiarism is the attending of a student the exam of a course instead of another student.

If the examination committee proofed a plagiarism of a student, he/she will be disengaged from the Faculty. The final disengagement of the student from the Faculty should be confirmed from the Student Council Affair of the university or according to the university roles.

سیاسات أخری Other policies

- Mobile phones are not allowed to use during a class lecture. It must be closed; otherwise the student will be asked to leave the lecture room.
 - Mobile phones are not allowed in class during the examination.
- Lecture notes and assignments might be given directly to students using soft or hard copy.