

MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information				
معلومات المادة الدراسية				
Module Title	Manufacturing fundamentals for oil facilities		Module Delivery	
Module Type	Core		☒ Theory ☐ Lecture ☒ Tutorial ☐ Practical ☒ Seminar	
Module Code	MMOG2202			
ECTS Credits	6			
SWL (hr/sem)	150			
Module Level	2	Semester of Delivery		2
Administering Department	MMOG	College	CIMOG	
Module Leader	Dr. Rafid Abdul Jalil Alhassen		e-mail	rafid.abduljalil@sa-uc.edu.iq
Module Leader's Acad. Title	Ph.D.		Module Leader's Qualification	Ph.D.
Module Tutor			e-mail	
Peer Reviewer Name	Dr. Rafid Abdul Jalil Alhassen		e-mail	rafid.abduljalil@sa-uc.edu.iq
Scientific Committee Approval Date	2025/9/1	Version Number	2.0	

Relation with other Modules			
العلاقة مع المواد الدراسية الأخرى			
Prerequisite module	None	Semester	
Co-requisites module	None	Semester	

Module Aims, Learning Outcomes and Indicative Contents	
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية	
Module Objectives أهداف المادة الدراسية	1. Providing students with the most important principles and fundamentals of manufacturing. 2. Developing and enhancing skills in the field of manufacturing fundamentals. 3. The graduate will acquire creative teaching and learning skills in the field of manufacturing .
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	- Providing students with the skill of dealing administrative dilemmas and violation in the environment.
Indicative Contents المحتويات الإرشادية	- Providing scientific presentations on the importance of professional ethics in the labor market. - Discussing copies of manufacturing codes. - Discussing scientific research, books, and resources related to manufacturing of oil facilities in the college library.

Learning and Teaching Strategies	
استراتيجيات التعلم والتعليم	
Strategies	- Encourage students to acquire skills to implement manufacturing of oil facilities plans in workplace setting through practical application practices. - Encourage students to submit reports and proposals on the most important points for strengthening manufacturing of oil facilities. - Encourage students to cooperate in achieving common points that encourage the implementation manufacturing of oil facilities plans, focusing on the most prominent ones, and the possibility of supporting other students with these plans.

Student Workload (SWL)			
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل		Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل		Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل			

Module Evaluation					
تقييم المادة الدراسية					
As		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	1	10% (10)	5 and 10	LO #1, #2 and #10, #11
	Assignments	0	10% (10)	2 and 12	LO #3, #4 and #6, #7
	Projects / Lab.	3	20% (10)	Continuous	All
	Report	2	10% (10)	13	LO #5, #8 and #10
Summative assessment	Midterm Exam	2hr	10% (10)	7	LO #1 - #7
	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)	
المنهاج الاسبوعي النظري	
	Material Covered
Week 1	Concept of the Oil and Gas refining industry
Week 2	Basic processes in refining
Week 3	Raw materials in the refining industry
Week 4	Stages of Natural Gas processing
Week 5	Physical and Chemical Properties of Crude Oil
Week 6	Physical and Chemical Properties of Petroleum Products
Week 7	Atmospheric Distillation in Oil Refineries
Week 8	Vacuum Distillation in Oil Refineries
Week 9	Conversion processes in the Oil Refining Industry / Part 1
Week 10	Beginnings of Catalytic Conversion
Week 11	Conversion processes in the Oil Refining Industry / Part 2
Week 12	Comparison between Hillual Conversion
Week 13	Mix products and improve quality in Oil refinery
Week 14	Storage and transportation Distribution in Oil and Gas industry
Week 15	Exam

Delivery Plan (Weekly Lab. Syllabus) المنهاج الاسبوعي للمختبر	
	Material Covered
Week 1	
Week 2	
Week 3	
Week 4	
Week 5	
Week 6	
Week 7	

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
Required Texts	Petroleum facilities – design and operation / D . Abdul Rahman Ahmed Al-Qahtani Oil and Gas Industry - Administrative and Technical Introduction / Dr . Mohammed Abdullah Al-Saadoun . Dr . Nima Al-Assadi, Dr . Abdul Razzaq Shaneen Al- Janabi, - Professional Ethics: Concepts and Applications.	Yes
Recommended Texts		No
Websites		

Grading Scheme

مخطط الدرجات

Group	Grade	التقدير	Marks %	Definition
Success Group (50 - 100)	A - Excellent	امتياز	90 - 100	Outstanding Performance
	B - Very Good	جيد جدا	80 - 89	Above average with some errors
	C - Good	جيد	70 - 79	Sound work with notable errors
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings
	E - Sufficient	مقبول	50 - 59	Work meets minimum criteria
Fail Group (0 - 49)	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded
	F – Fail	راسب	(0-44)	Considerable amount of work required

Note: Marks Decimal places above or below 0.5 will be rounded to the higher or lower full mark (for example a mark of 54.5 will be rounded to 55, whereas a mark of 54.4 will be rounded to 54. The University has a policy NOT to condone "near-pass fails" so the only adjustment to marks awarded by the original marker(s) will be the automatic rounding outlined above.

رئيس القسم
م.د. رافع عبد الجليل حسن

مدرس المادة
م.م. جواد كاظم حسن

**Director of the Quality Assurance and Performance Department of
the University: Wafa Saeed Hassan**

مسؤولة وحدة الجودة كلية
الإدارة والاقتصاد
م.م. وفاء سعيد حسن