



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدر اسية						
Module Title		Workshop		Module Delivery		
Module Type		Core		□ Theory		
Module Code	RETE 103			□ Lecture ⊠ Lab		
ECTS Credits	6			□ Tutorial		
SWL (hr/sem)	150			☐ Practical □ Seminar		
Module Level		. 1	Semester of	f Delivery	1	
Administration D	Administration Department		College	College of Oil & Gas Engineering/Kirkuk	Techniques	
Module Leader	Naseer Tawfe	eeq Alwan	e-mail	naseer.t.alwan@ntu.ec	<u>lu.iq</u>	
Module Leader's Acad. Title		Lecturer	Module Le	ader's Qualification	PhD	
Module Tutor	Name (if available)		e-mail			
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		01/06/2023	Version Nu	umber		

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 الدر اسية ونتائج التعلم والمحتويات الإرشادية				
Module Aims أهداف المادة الدر اسية	 The student is able to acquire manual skills by carrying out the operation and manufacturing processes using various hand tools and measuring tools. Introducing the student to gaining the manual skill by implementing the operations and connection of the manual tools and measuring tools for the household refrigeration and air conditioning equipment. The laboratory material consists of laboratory workshops and refrigeration workshop. 				
Module Learning Outcomes	 To familiarize the student with the importance of workshops. To teach the student how to acquire the manual skill by carrying out the operation and manufacturing processes using various hand tools and measuring tools. 				
مخرجات التعلم للمادة الدراسية	 To distinguish the manual tools and measuring tools for the household refrigeration and air conditioning equipment. 				
Indicative Contents المحتويات الإر شادية	Indicative content includes the following. <u>Part A - Tools</u> Include recognition of different tools. Employed for surface preparation and methods of application correctly, Devices of measuring dimensions, Calipers, types and uses, drill types and dimensions <u>Part B - Measuring tools</u> T Steel miler, Veneer, Micrometer, Height & height gauge hand tools, Saws, Hammers, Files, Scriber , Chisels , Taps and dies , Surface plate , Bench working. <u>Part C - WeldingWorkshop</u> Include recognition of tools and materials employed – Gas cylinder of oxy – Acetylene welding of surface – Electrical are welding exercise – Welding spot. <u>Part D - LathingWorkshop</u> lathe machine – Parts – Operation - Practice on longitudinal lathing – Making center – Puncturing – Making external teeth – Practice - Employing measuring tools – internal & external lath machining.				

Learning and Teaching Strategies				
استر اتيجيات التعلم والتعليم				
Strategies				





Teaching Method 1 – Asynchronous on-line course materials Description: Podcasts, videos and articles in workshop Attendance Recorded: yes
Unscheduled Directed Student Hours (time spent away from the timetabled sessions but directed by the teaching staff).
Teaching Method 2 - Practical Description: Practical homework assignments Attendance Recorded: Yes Unscheduled Directed Student Hours (time spent away from the timetabled sessions but directed by the teaching staff).

Student Workload (SWL) الحمل الدر اسي للطالب محسوب لـ ١٥ اسبو عا				
Structured SWL (h/sem) 93 Structured SWL (h/w) الحمل الدر اسي المنتظم للطالب أسبو عيا الحمل الدر اسي المنتظم للطالب خلال الفصل			6	
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	57	Unstructured SWL (h/w) الحمل الدر اسي غير المنتظم للطالب أسبو عيا	3.8	
Total SWL (h/sem) الحمل الدر اسي الكلي للطالب خلال الفصل	150			

Module Evaluation تقييم المادة الدر اسية						
	Time/Nu Weight (Marks) Week Due Relevant Learning mber Outcome					
	Quizzes	No	No	No	No	
Formative	Assignments	No	No	No	No	
assessment	Projects / Lab.	14	10% (10)	Continuous	All	
	Report	14	30% (30)	Continuous	All	
Summative	Midterm Exam	2 hr	10% (10)	7	LO # 1-6	
assessment	Final Exam	3 hr	50% (50)	16	All	
Total assessm	ent	•	100% (100 Marks)			





Delivery Plan (Weekly Lab. Syllabus)					
	المنهاج الأسبوعي للمختبر				
	Material Covered				
1	Tools				
	Include recognition of different tools. Employed for surface preparation and methods of application				
	correctly, Devices of measuring dimensions, Calipers , types and uses , drill types and dimensions				
2-3	Measuring tools				
	Steel miler, Veneer, Micrometer, Height & height gauge hand tools, Saws, Hammers, Files,				
	Scriber, Chisels, Taps and dies, Surface plate, Bench working.				
4-6	WeldingWorkshop				
	Include recognition of tools and materials employed - Gas cylinder of oxy - Acetylene welding of				
	surface – Electrical are welding exercise – Welding spot.				
7-9	LathingWorkshop				
	lathe machine – Parts – Operation - Practice on longitudinal lathing – Making center – Puncturing				
	- Making external teeth - Practice - Employing measuring tools - internal & external lath				
	machining.				
10-11	AlloyingWorkshop				
	Contents of alloying workshops – Alloying sands and characteristics – Additives for improvement				
	- Metals melts - Method of casting - Sand mould shaping - Heat treatment.				
12-13	CarpentryWorkshop				
	tools, machinery in the carpentry workshop, Fundamental principles – types of wood – application				
	samples preparation				
14-15	CarsWorkshop				
	Modes of car motor operation - Fuel feed pump - Electrical spark transfer device - Pistons in cylinder				
	as motion transfer device to the front, back wheels.				
16	Preparatory week before the final Exam				

Learning and Teaching Resources					
مصادر التعلم والتدريس					
	Text	Available in the			
	Library?				
Required Texts	Workshop	Yes			





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