

Ministry of Higher Education and Scientific Research - Iraq

University of Warith Al_Anbiyaa Engineering Department

Refrigeration and Air Conditioning Techniques Engineering



MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

101 11/1						
Module Information						
		مادة الدراسية	معلومات ال			
Module Title	Mo	echanical Drawing		Module Delivery		
Module Type		© C (☐ Theory		
Module Code		MPAC201	7 6 6 6 7	⊠ Lecture ⊠ Lab		
ECTS Credits		6 ⊗	4 ~ 0 0	☐ Tutorial ☐ Practical		
SWL (hr/sem)		150	700)	□ Seminar		
Module Level		2	Semester of	Delivery	1	
Administering Department		BSc-MPAC	College	Engineering		
Module Leader	Ali Hammoudi Alwazir		e-mail	ali.ham@uowa.ed	<u>u.iq</u>	
Module Leader's Acad. Title		lecturer	Module Leader's Qualification		M.Sc.	
Module Tutor	Salma Mahmood Mezhar		e-mail	Salma.mahmood@uowa.edu.iq		
Peer Reviewer Name			e-mail	_		
Scientific Committee Approval Date		23 / 9/2024	Version Number 1.0			
Relation with other Modules						
العلاقة مع المواد الدراسية الأخرى						
Prerequisite mod	ule			Semester		

Co-requisites module		Semester				
Module	Module Aims, Learning Outcomes and Indicative Contents					
أهداف المادة الدراسية ونتائج التعلم والمحتويات الإرشادية						
Module Aims	 To teach the student, the basic skill of reading engineering drawing along with their simples and terms as well as the standards . joining, bolts and gears, knowledge of assembly drawings how to use ACD in mechanical drawing fits and tolerances 					
Module Learning Outcomes	Upon completion of the course, students should be able to: 1- Focus on engineering drawing along with their simples and terms as well as the standards 2- joining, bolts and gears, knowledge of assembly drawings. 3- how to use ACD in mechanical drawing 4- fits and tolerances.					
Indicative Contents	Indicative content includes the following. Application on computer, basic of engineering drawing with their simples and terms as well as their standards.[12hrs] using AutoCAD to draw an example of joining by bolts. [10 hrs] Classification of keys, pins and rivets. [10hrs] Application on computer, using AutoCAD to draw an example of joining of keys or pins. [10 hrs] Tolerances, basic size, limits of size and deviation. [10 hrs] Fits, classes of fit/ clearance. Transition. Interference. Calculation of fits & tolerance. [15 hrs] Assembly drawing using AutoCAD to draw general assembly. [10hrs] Application on computer, using AutoCAD to draw an example of spur gear. [10 hrs]					
	Learning and Teaching Strategies					

Week 11

Pipes and tubes

			التعلم والتعليم	استر اتبجبات			
Strategies	Assessment is based on hand-in assignments written exam Case study Quizzes					y, Quizzes,	
Student Workload (SWL)							
			اسي للطالب	الحمل الدر			
Structured SWL (h/sem) 87 Structured SWL (h/w)				8			
Unstructur	ed SWL (h/se	em)	113	113 Unstructured SWL (h/w)			4
Total SWL	(h/sem)				200		
			Module Ev	valuation			
			دة الدراسية	تقييم الماد			
		Time/N mber	Weigh	nt (Marks)	Week Due	Relevant Le	earning
Formative	Quizzes	4	20	% (20)	3,5,6,10	LO #1,2,10	
assessment	Assignmen	nts 2	• 10	10% (10)		LO # 8	
	Seminar	1		% (10)	→ 11	LO # 11	
Summative	Midterm F		- Alth	% (10)	712	LO # 1-12	
assessment	Final Exar	n 3hr		50% (50) 16		All	
Total assessi		Dlan (Was		100 Marks)	cal and nuo	-4ical	
		ry Plan (Wed جب ان يغطي الو			•		
	Material Cov	vered					
Week 1	Symbols, expr	ressions, general	review	, ••	114		
Week 2	Screws, bolts, studs and nuts, Keys.						
Week 3	Screws, bolts, studs and nuts, Keys.						
Week 4	pulleys						
Week 5	Gears(bevel gear, warm gear, spur gear)						
Week 6	Fit and tolerance						
Week 7	Surface finishing and part tables						
Week 8	Surface finishing and part tables						
Week 9	Assembly drawing and working drawing for advanced mechanisms						
Week 10	Assembly drawing and working drawing for advanced mechanisms						

Week 12	Pipes and tubes
Week 13	Gears assembly
Week 14	Advanced machine assembly
Week 15	Advanced machine assembly

Learning and Teaching Resources

مصادر التعلم والتدريس

	Text	Available in the Library?
Recommended Texts	➤ AutoCAD reference book	Yes

Grading Scheme

مخطط الدرجات

المرجات المرجا						
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	ختر	70 - 79	Sound work with notable errors		
	D - Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E - Sufficient	الله مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX – Fail	راسب (قيد المعالجة)	(45-49)	More work required but credit awarded		
(0-49)	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.

