MODULE DESCRIPTION FORM

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title	Engi	Engineering Mechanics			ıle Delivery	
Module Type		Core			☐ Theory	
Module Code		CE113			☐ Lecture ☐ Lab ☐ Tutorial	
ECTS Credits		8				
SWL (hr/sem)		180		☐ Practical ☐ Seminar		
Module Level		1	Semester o	f Delivery		1,2
Administering Dep	partment	Type Dept. Code	College	Type College Code		
Module Leader	Firas Abbas		e-mail			
Module Leader's Acad. Title		Ass. Lecturer	Module Lea	ader's Qualification		M.Sc.
Module Tutor	Name (if available)		e-mail	E-mail		
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		01/09/2024	Version Nu	mber	1.0	

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

Modu	Module Aims, Learning Outcomes and Indicative Contents				
	أهداف المادة الدراسية ونتائج التعلم والمحتويات الارشادية				
Module Aims					
أهداف المادة الدراسية					
Module Learning					
Outcomes					
مخرجات التعلم للمادة الدراسية					
Indicative Contents					
المحتويات الارشادية					

Learning and Teaching Strategies					
استراتيجيات النعلم والتعليم					
Strategies					

Student Workload (SWL) الحمل الدراسي للطالب محسوب لـ 15 اسبو عا						
Structured SWL (h/sem) Structured SWL (h/w) 142 الحمل الدراسي المنتظم للطالب أسبوعيا الحمل الدراسي المنتظم للطالب خلال الفصل						
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	108	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	7.2			
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	250					

Module Evaluation						
تقييم المادة الدراسية						
	Time/Number Weight (Marks) Week Due Relevant Learning Outcome					
Formative	Quizzes	2	10% (10)			
assessment	Assignments	2	10% (10)			

	Projects / Lab.	1	10% (10)		
	Report	1	10% (10)		
Summative	Midterm Exam	2 hr	10% (10)		
assessment Final Exam 2hr		2hr	50% (50)	16	All
Total assessment		100% (100 Marks)			

Delivery Plan (Weekly Syllabus)					
المنهاج الاسبوعي النظري					
	Material Covered				
Week 1	Introduction : Definitions, International System of Units, Newton's laws of motion and Force Systems				
Week 2	Resultant Of Forces System: System of Forces, Composition and Resolution of Forces, Resolution and Composition of Two Concurrent, Coplanar forces, Resolution and Composition of three or more Concurrent, Coplanar forces, Equivalent couple, Force – couple system.				
Week 3	Equilibrium: General, Free Body diagram (F.B.D), Modeling the Action of Forces in 2D Analysis, Two- and Three-Force Member, Equilibrium conditions				
Week 4	Friction: Theory of Dry Friction, The static and kinetic friction forces, Coefficients of Friction, Angles of Friction, Problems Involving Dry Friction, Procedure for Analysis,				
Week 5	Trusses; method of joint				
Week 6	Method of section				
Week 7	Center Of Gravity And Centroid				
Week 8	Moments Of Inertia				
Week 9	Dynamics: Introduction ,				
Week 10	Dynamics: Introduction				
Week 11	Rectilinear Kinematics				
Week 12	Continuous Motion,				
Week 13	Coplanar Curvilinear Motion of a Particle Using Rectangular Components				
Week 14	Motion of Projectiles				
Week 15	Motion of Projectiles				
Week 16	Preparatory week before the final 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	 Vector Mechanics for Engineers, Ferdinand P. Beer Statics and Dynamics Engineering Mechanics: by R. C. HIBBELER Engineering Mechanics: Statics and Dynamics; by Archie Higdon and William B. Stiles. Theory and Problems of Engineering Mechanics: Statics and Dynamics; by Mclean and Nelson. Engineering Mechanics: Dynamics; 5th Edition by R. C. Hibbeler. 	Yes			
Recommended Texts		No			
Websites					

Grading Scheme مخطط الدرجات					
Group	Grade انقير 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	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.