

## Ministry of Higher Education and Scientific Research – Iraq University of Warith Al\_Anbiya Collage of Engineering/Civil Department



## FORM DESCRIPTION OF MODULE

نموذج وصف المادة الدراسية

Module Information معلومات المادة الدراسية						
Module Title		·	Modu	ıle Delivery		
Module Type	Basic		1900		⊠Theory	
Module Code		ENG013			⊠Lecture	
ECTS Credits	4	7-7-			⊠Lab	
SWL (hr/sem)	175017		⊠Tutorial  □Practical  □Seminar			
Module Level		1	Semester o	Semester of Delivery		1
Administering Dep	partment	Civil Eng. Dept.	College	College of Eng.		
Module Leader	Israa	Hasan Nayel	e-mail	israa.nayel @uokerbala.edu.iq		
Module Leader's	Module Leader's Acad. Title		Module Leader's Qualification		Ph.D.	
Module Tutor			e-mail			,
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		/06/2024	Version Nu	mber	1.0	

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 Aims	Understanding the fundamental principles of mechanical physics.				
أهداف المادة الدر اسية	Dev <mark>eloping a strong foundation in physics th</mark> at students can build upon in				
	future studies.				
	Analyze the properties of forces, moments, couples, and resultants in 2D.				
Module Learning	Analyze the properties of forces, moments, couples, and resultants in 3D				
Outcomes	Solve equilibrium problems in 2D.				
مخرجات التعلم للمادة الدراسية	Solve equilibrium problems in 3D.				
	Understand basic concepts of the dynamics.				
	Indicative content includes the following.				
	- The fundamental concepts necessary for the study of Physics.				
<b>Indicative Contents</b>	- The properties of forces, moments, couples, and resultants in 2D &3D				
المحتويات الإرشادية	- The equilibrium principles of structures.				
	- The dynamic characteristics.				
	كليــــــــــــــــــــــــــــــــــــ				

Learning and Teaching Strategies					
استراتيجيات التعلم والتعليم					
Strategies	- The main strategy that will be adopted in delivering this module is to				
~ · · · · · · · · · · · · · · · · · · ·	encourage students' participation in the exercises, while at the same				
time refining and expanding their critical thinking skills. This will					
	achieved through classes, interactive tutorials and by considering type				

of simple experiments involving some sampling activities that are interesting to the students.



Student Workload (SWL)					
الحمل الدراسي للطالب محسوب لـ ١٥ اسبوعا					
Structured SWL (h/sem)         108         Structured SWL (h/w)         7           الحمل الدر اسي المنتظم للطالب خلال الفصل         الحمل الدر اسي المنتظم للطالب خلال السبو عيا         الحمل الدر اسي المنتظم للطالب خلال الفصل         الحمل الدر اسي المنتظم للطالب أسبو عيا         الحمل الدر اسي المنتظم الطالب أسبو عيا           الحمل الدر اسي المنتظم الطالب أسبو عيا           الحمل الدر اسي المنتظم الطالب العلى المنتظم الطالب العلى العل					
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	67	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	4		
Total SWL (h/sem)  الحمل الدراسي الكلي للطالب خلال الفصل	175				

## **Module Evaluation**

تقييم المادة الدراسية

		Time/Nu mber	Weight (Marks)	Week Due	Relevant Learning Outcome
	Quizzes	2	10% (10)	5, 10	LO #1-3
Formative	Assignments	2	10% (10)	2, 12	LO # 1-3
assessment	Projects / Lab.	1	10% (10)	Continuous	All
	Report	1	10% (10)	13	LO # 2-4
Summative	Midterm Exam	2 hr	10% (10)	7	LO # 1
assessment	Final Exam	3hr	50% (50)	16	All
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus)				
المنهاج الاسبوعي النظري				
	Material Covered			
Week 1	Introduction to Physics and Basic Concepts			
Week 2	Scalars and Vectors			
Week 3	Scalars and Vectors			
Week 4	Newton's Laws and Units			
Week 5	Rectangular Components of force in 2D			
Week 6	Moment and Couple in 2D			
Week 7	Mid-term Exam + Resultants in 2D			
Week 8	Rectangular Components of force in 3D			
Week 9	Moment, Couple and Resultants in 3D			
Week 10	Equilibrium in two dimensions			
Week 11	Equilibrium in two dimensions			
Week 12	Equilibrium in three dimensions			
Week 13	Equilibrium in three dimensions			
Week 14	Introduction to dynamics.			
Week 15	Introduction to dynamics			
Week 16	Preparatory week before the final Exam			

Delivery Plan (Weekly Lab. Syllabus)					
المنهاج الاسبوعي للمختبر					
	Material Covered				
Week 1	Workshop A				
Week 2	Workshop A				
Week 3	Workshop B				
Week 4	Workshop B				
Week 5	Workshop C				
Week 6	Workshop D				

Week 7

Workshop E

Learning and Teaching Resources					
مصادر التعلم والتدريس Available in the Text Library?					
Required Texts	Engineering Mechanics STATICS J.L.Meriam And L.G.Kraige	Yes			
Recommended Texts	Engineering Mechanics: Statics by Russell Hibbeler.	No			
Websites					

Grading Scheme مخطط الدرجات						
Group	Grade التقدير Marks (%)		Definition			
	<b>A</b> – Excelle <mark>nt</mark>	امتياز	90 - 100	Outstanding Performance		
	<b>B</b> – Very G <mark>oo</mark> d	ييد بدا	80 - 89	Above average with some errors		
<b>Success Group</b> (50 - 100)	C – Good	न्यं	70 - 79	Sound work with notable errors		
(30 - 100)	D – Satisfactory	متوسط	60 - 69	Fair but with major shortcomings		
	E – Sufficient	مقبول	50 - 59	Work meets minimum criteria		
Fail Group	FX — Fail	راسبم (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.