

Ministry of Higher Education and Scientific Research - Iraq

University of Warith Al-Anbiyaa College of Engineering Civil Engineering Department



## MODULE DESCRIPTOR FORM

Module Information						
Module Title	Physics	OFWARITHA		Module Delivery		
Module Type	Basic	RSITIEGE OF E	O NEERIN	Theory		
Module Code	ENG015			Lecture		
ECTS Credits	7			Lab		
SWL (hr/sem)	175			Tutorial		
Module Level		1 Semester of I		Delivery	1	
Administering Dep	partment	Civil Engineering	College	Engineering		
Module Leader	Israa Hasan Na	ayel	e-mail	Sajjad.a@uokerbala.edu	ı.iq	
Module Leader's Acad. Title		Asst. Professor	Module Lead	ler's Qualification	Ph.D.	
Module Tutor	8	2017	e-mail			
Peer Reviewer Name			e-mail			
Scientific Committee Approval Date		2024/9/26 اداس	Version Num	ber 1		

Relation With Other Modules				
Prerequisite module	None	Semester	1	
Co-requisites module	None	Semester		

Module Aims, Learning Outcomes and Indicative Contents					
Module Aims	<ol> <li>Understanding the fundamental principles of mechanical physics.</li> <li>Developing a strong foundation in physics that students can build upon in future studies.</li> </ol>				
Module Learning Outcomes	<ol> <li>Analyze the properties of forces, moments, couples, and resultants in 2D.</li> <li>Analyze the properties of forces, moments, couples, and resultants in 3D</li> <li>Solve equilibrium problems in 2D.</li> <li>Solve equilibrium problems in 3D.</li> <li>Understand basic concepts of the dynamics.</li> </ol>				
Indicative Contents	<ul> <li>Indicative content includes the following.</li> <li>The fundamental concepts necessary for the study of Physics.</li> <li>The properties of forces, moments, couples, and resultants in 2D &amp;3D</li> <li>The equilibrium principles of structures.</li> <li>The dynamic characteristics.</li> </ul>				

Learning and Teaching Strategies				
The main strategy that will be adopted in delivering this module is to encoura				
	students' participation in the exercises, while at the same time refining and			
<b>Strategies</b> expanding their critical thinking skills. This will be achieved thr				
	interactive tutorials and by considering type of simple experiments involving			
	some sampling activities that are interesting to the students.			

Student Workload (SWL)						
Structured SWL (hr/sem) 108 Structured SWL (h/w) 6						
Unstructured SWL (hr/sem)	67	Unstructured SWL (h/w)	4			
Total SWL (h/sem)	175					

## **Module Evaluation**

وصف المقرر الدراسي

جامعة وارث الأنبياء / كلية الهندسة

		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 assessm	ent		100% (1 <mark>00 Marks</mark> )		
SIT OF WARITH AL					

	Delivery Plan (Weekly Syllabus)					
	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)					
	Material Cove	red				
Week 1	Workshop A	OF WARITH				
Week 2	Workshop A	185 COLLECT OF AND				
Week 3	Workshop B					
Week 4	Workshop B					
Week 5	Workshop C					
Week 6	Workshop D	700 000				
Week 7	Workshop E					

Learning and Teaching Resources				
	Text	Available in the 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						
Group	Grade	التقدير	Marks (%)	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
Success Group	<b>B</b> - Very Good	جيد جدا	80 - 89	Above average with some errors		
(50 - 100)	C - Good	ختر	70 - 79	Sound work with notable errors		
	<b>D</b> - 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	راسب	(0-44)	Considerable amount of work required		
		SILLEGE	NEERX	IN.		

**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.

