

MODULE DESCRIPTOR FORM

نموذج وصف المادة الدراسية

Module Information					
معلومات المادة الدراسية					
Module Title	Engineering Physics		Module Delivery		
Module Type	SUPPLEMENT		<input checked="" type="checkbox"/> Theory <input type="checkbox"/> Lecture <input type="checkbox"/> Lab <input checked="" type="checkbox"/> Tutorial <input type="checkbox"/> Practical <input type="checkbox"/> Seminar		
Module Code	UOMU0203014				
ECTS Credits	4				
SWL (hr/sem)	100				
Module Level		UGI	Semester of Delivery	1	
Administering Department		Building and construction techniques	College	Al-Mustaqbal university	
Module Leader	Assist. lec Fatima Muslim Hadi		e-mail	fatima.muslim.hadi@uomus.edu.iq	
Module Leader's Acad. Title		Ass.lecture	Module Leader's Qualification		None
Module Tutor	None		e-mail	None	
Peer Reviewer Name			e-mail		
Review Committee Approval		01/10/2025	Version Number	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 أهداف المادة الدراسية	After successful completion of this course the student will be able to understand: 1. student's knowledge of Units, Physical Quantities and Vectors. 2. Demonstrates knowledge of Standards and Units, Utilization of Units and conversions. 3. definition of linear motion equation. 4. He will be able compute 2-D and 3-D Motion. 5. definition of Newton's Law. 6. Implements the Applications of Newton's Law. 7. knowledge and calculation of work and Kinetic Energy. 8. He will be able calculation of the Potential Energy and Conservation of Energy knowledge and calculation of the Momentum, Impulse and Collisions. 9. definition of and calculation of the Rotational motion of Rigid Bodies and calculation of the Rotational Kinematics.		
Module Learning Outcomes مخرجات التعلم للمادة الدراسية	The ability to convert units in various systems Distinguish between different physical quantities and the standards that define these quantities The ability of the student to solve the problems of the linear equation and the two- and three dimensional kinetic equations. Implementing applied problems on Newton's law and solving potential energy and momentum issues And how to solve the problems of rotational motion of solid bodies		
Indicative Contents المحتويات الإرشادية	Preparing the student to continue self-learning, acquiring skills and developing his potential		
Learning and Teaching Strategies			
استراتيجيات التعلم والتعليم			
Strategies	Assessment is based on 4. Exams. 2 Student feedback. 3 Homework’s		

Student Workload (SWL) الحمل الدراسي للطالب			
Structured SWL (h/sem) الحمل الدراسي المنتظم للطالب خلال الفصل	63	Structured SWL (h/w) الحمل الدراسي المنتظم للطالب أسبوعيا	4.2
Unstructured SWL (h/sem) الحمل الدراسي غير المنتظم للطالب خلال الفصل	37	Unstructured SWL (h/w) الحمل الدراسي غير المنتظم للطالب أسبوعيا	2.5
Total SWL (h/sem) الحمل الدراسي الكلي للطالب خلال الفصل	100		

Module Evaluation تقييم المادة الدراسية					
		Time/Number	Weight (Marks)	Week Due	Relevant Learning Outcome
Formative assessment	Quizzes	2	10% (10)	3,5,6,10	
	Assignments	2	10% (10)	7, 8	
	Tutorial	1	10% (10)	Continuous	
	Report	1	10% (10)	13	
Summative assessment	Midterm Exam	2 hr	10% (10)	12	
	Final Exam	3 hr	50% (50)	16	
Total assessment			100% (100 Marks)		

Delivery Plan (Weekly Syllabus) المنهاج الاسبوعي النظري	
	Material Covered
Week	Syllabus
1	1Demonstrates knowledge about the introduction and Scope of Physics 1, Units, Physical Quantities and Vectors
2	Demonstrates knowledge of Standards and Units, Utilization of Units and conversions.
3	Demonstrates knowledge and implementation of the Linear Motion.

4	Demonstrates knowledge and compute 2-D and 3-D Motion.
5	Demonstrates knowledge about Newton's Law.
6	Review and solution of the homework.
7	Demonstrates knowledge and calculation of work and Kinetic Energy.
8	Demonstrates knowledge and calculation of work and Kinetic Energy.
9	Demonstrates knowledge and calculation of the Potential Energy and Conservation of Energy.
10	Demonstrates knowledge and calculation of the Momentum, Impulse and Collisions.
11	Demonstrates knowledge and calculation of the Rotational motion of Rigid Bodies.
12	Demonstrates knowledge and calculation of the Rotational Kinematics.
13	Demonstrates knowledge and calculation of the Rotational Kinematics.
14	general review
15	prepare to final exam

Learning and Teaching Resources مصادر التعلم والتدريس		
	Text	Available in the Library?
<i>Required Texts</i>	Lectures prepared by the teacher	Yes
<i>Recommended Texts</i>	book_Bueche,_Frederick_Hecht,_Eugene_Schaums_Outline_of_College	No
<i>Websites</i>		

APPENDIX:

GRADING SCHEME مخطط الدرجات				
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	جيد	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 (0 – 49)	FX – Fail	مقبول بقرار	(45-49)	More work required but credit awarded
	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.

ملاحظة: هذا النموذج تم وضعه وتقديمه من قبل مديرية ضمان الجودة في وزارة التعليم العالي والبحث العلمي