MODULE DESCRIPTION FORM

Module Information						
Module Title			Modu	ıle Delivery		
Module Type		Core			☑ Theory	
Module Code			☑ Lab			
ECTS Credits				- ⊠ Tutorial □ Practical		
SWL (hr/sem)	225				☑ Seminar	
Module Level		1	Semester of Delivery		1	
Administering Dep	partment	Medical Physics	College	College of Sciences		ciences
Module Leader	Ahmed Mousa Jaafar		e-mail	ahmed.mo@uowa.edu.iq		wa.edu.iq
Module Leader's Acad. Title		Lecturer. Dr.	Module Lea	odule Leader's Qualitication		PhD in medical Physics
Module Tutor	Asst. lect. Alhanoof S.Shakir		e-mail	alhanoof.salam@uowa.edu.iq		ıowa.edu.iq
Peer Reviewer Name		Asst. lect. Saja Basim Ali	e-mail saja.b@uowa.edu.iq		edu.iq	
Scientific Committee Approval Date		10-11-2024	Version Nu	on Number V 1.0		1.0

Relation with other Modules					
Prerequisite module	None	Semester	-		
Co-requisites module	None	Semester	-		

Department Head Approval Dean of the College Approval

Module Aims, Learning Outcomes and Indicative Contents				
Module Objectives	The course aims to provide students with information and skills in mechanics necessary for the undergraduate level. building a strong background for those who will continue to study materials related to analytical mechanics applications			
Module Learning Outcomes	The outcomes of study weeks. 1. Learning about mechanics in general physics. 2. Listing the different terms associated with mechanics. 3. Summarizing what is meant by basic mechanics. 4. Discussion, body power, power, and energy of work. 5. Descriptions of newtons laws. 6. Selecting sample machines. 7. Identifying the basic circuit elements and their applications. 8. The ability for making and managing discussions. 9. The good Explanation of density and elasticity			
Indicative Contents	 Providing students with the basics and additional topics related to the outputs of thinking. Directing questions to the students and forming discussion groups during the lectures to discuss the solution of the question that requires Thinking and analyzing. Giving students homework to solve questions that require self-explanations. Assigning students to prepare reports related to the course Applying theoretical concepts in various physical issue 			

Learning and Teaching Strategies				
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 be 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)					
Structured SWL (h/sem) 90 Structured SWL (h/w) 6					
Unstructured SWL (h/sem)	132	Unstructured SWL (h/w)	9		
Total SWL (h/sem)	222 + 3 final = 225				

Module Evaluation						
		Time/Number	Weight (Marks) Week Due		Relevant Learning Outcome	
	Quizzes	5	10% (2)	3,5,9,10,13	1,2,3,6,7	
	Lab	4	8% (2)	4,6,7,13	3,6,7,8	
Formative	Online Assig.	3	6% (2)	3,8,12	3,4,5,6	
assessment	Reports	10	10% (1)	3,4,5,8,9,10,1 1,12,13,14	1 - 9	
	Seminar	2	6% (3)	All	1 - 9	
Summative	Midterm Exam	1hr	10% (10)	7		
assessment	Final Exam	3hr	50% (50)	16	All	
Total assessment				100% (100 N	farks)	

Delivery Plan (Weekly Syllabus)				
	Material Covered			
Week 1	INTRODUCTION TO VECTORS			
Week 2	UNIFORMLY ACCELERATED MOTION			
Week 3	NEWTONS LAWS			
Week 4	EQUILIBRIUM UNDER THE ACTION CONCURRENT FORCES			
Week 5	EQUILBRIUM OF A RIGED BODY COPLANAR FORCES			
Week 6	WORK ENERGY AND POWER			
Week 7	SAMPLE MACHINES			
Week 8	Mid - term exam			
Week 9	IMPULSE AND MOMENTUM			
Week 10	ANGULAR MOTION IN A PLANE			
Week 11	RIGID- BODY ROTATION			
Week 12	DENSITY: ELASTICITY I			
Week 13	DENSITY: ELASTICITY II			
Week 14	FLUIDS AT REST			
Week 15	FLUIDS IN MOTION			
Week 16	Final exam			

Delivery Plan (Weekly Lab. Syllabus)				
	Material Covered			
Week 1	EXP 1: Boyle's Law			
Week 2	EXP 2: The Simple pendulum			
Week 3	EXP 3: The Spiral Spring			
Week 4	EXP 4: Static Torsion			
Week 5	EXP 5: Vector Force Table			
Week 6	Discussion for the experiments (1-3)			
Week 7	Discussion for the experiments (4-5)			
Week 8	EXP 6: ARCHIMEDES' PRINCIPAL EXPERIMENT			
Week 9	EXP 7: Surface tension			
Week 10	EXP 8: Viscosity of liquids			
Week 11	EXP 9: Rotational motion			
Week 12-13	EXP 10: Coefficient of fraction			
Week 14	Discussion for the experiments (6-8)			
Week15	Discussion for the experiments (9-10)			
Week 16	Final Exam			

Learning and Teaching Resources					
	Text Available in the Library?				
Required Texts	Schaum's outlines of theory and problems of college physics	No			
Recommended Texts	Lecture Notes on Classical Mechanics for Physics	No			
Websites	https://sites.astro.caltech.edu/~golwala/ph106ab/ph106ab_notes.pdf				

Grading Scheme						
Group	Grade	التقدير	Marks %	Definition		
	A - Excellent	امتياز	90 - 100	Outstanding Performance		
	B - Very Good	جيد جداً	80 - 89	Above average with some errors		
Success Group (50 - 100)	C - Good	جيد	70 - 79	Sound work with notable errors		
(63 233)	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	راسب (قيد المعالجة)	(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.